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Toronto Works Dept

ANNUAL REPORT
OF THE
CITY ENGINEER
OF
TORONTO
FOR
1899



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TORONTO.

THE CITY OF TORONTO is situated upon the northern shore of Lake Ontario, about 40 miles easterly of its western terminus. It lies in latitude $43^{\circ} 39' 10''$ north, longitude $79^{\circ} 23'$ west, on a plateau gently ascending north for a distance of three miles, where an altitude of about 220 feet above the Lake level is reached. It extends about eight miles along the Lake, and is generally level, with slight depressions at points where minor water courses formerly existed. The River Don flows through the eastern part of the City, and the River Humber immediately to the west of its western limit. The harbor is formed in front of the City by a sandy island that lies to the south, at a distance of about a mile and a half.

The area within the City limits, not including the portions of the City land covered by water, is 17.17 square miles.

In this area there is a population of about 220,000.

Within the City limits there are 259.03 miles of streets, of which including broken stone roadways, 180.89 miles are paved, and 78.14 miles unpaved.

84 $\frac{1}{4}$ miles of lanes.

231 $\frac{1}{3}$ miles of sewers.

255 miles of sidewalks.

257.613 miles of water mains.

Actual annual revenue from Water Works, 1899, \$452,296.09

7,000,000,000 gallons of water supplied annually.

1,164 electric arc street lamps.

1,000 gas street lamps.

252 miles of gas mains.

207 miles of underground electric conduits.

20,318 miles of overhead and underground electric wires.

117 miles of steam railway tracks.

84.946 miles of single street railway tracks.

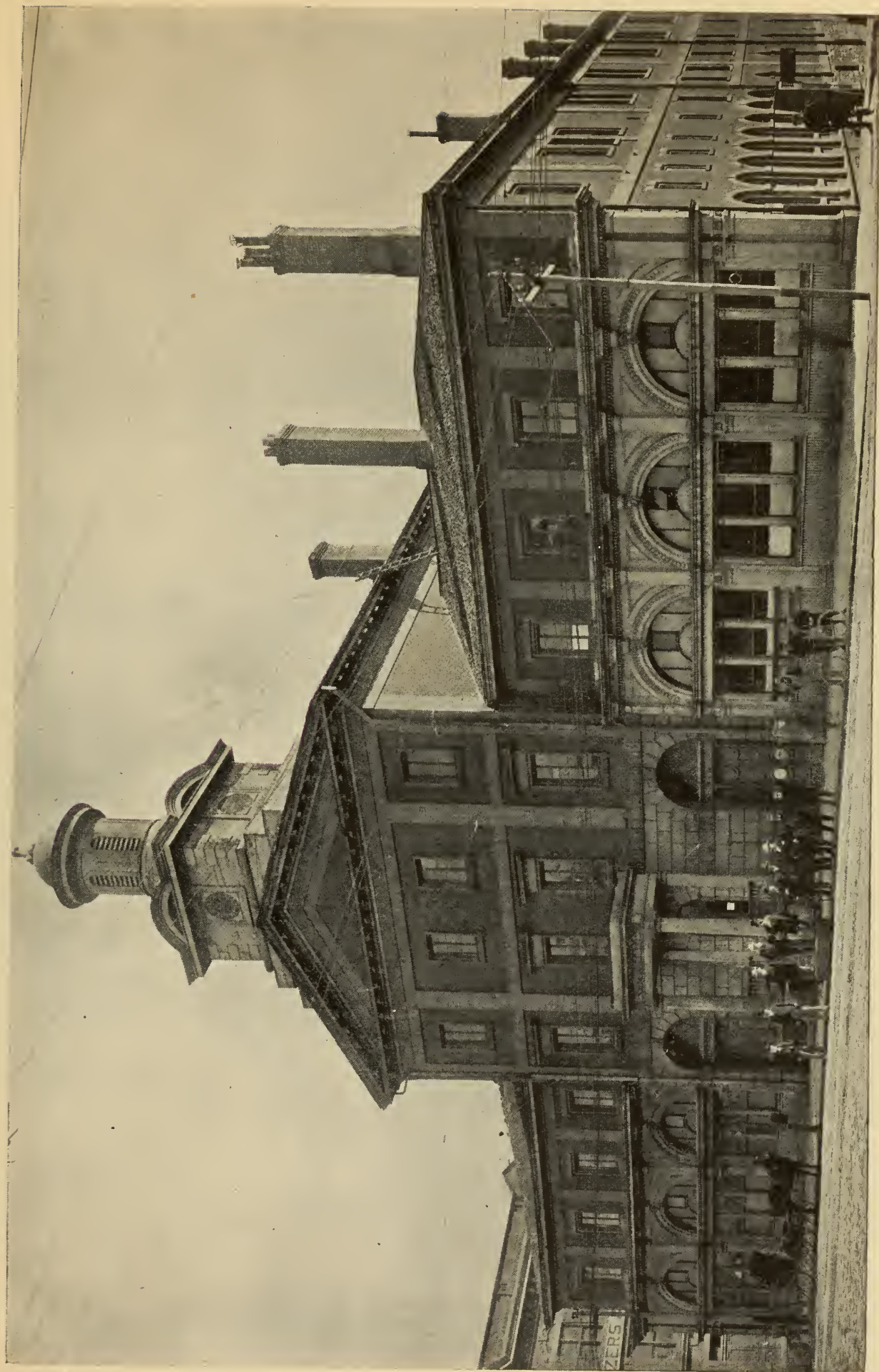
The estimated value of property owned by the City is over \$12,000,000.

| | |
|---|---------------|
| Total gross assessment of property in City | \$150,325,122 |
| Total value of property in City exempt from taxation. | 22,441,306 |

Total net assessment of property in City..... \$127,883,816

Value of buildings erected in City during 1899, \$2,011,000.





OLD CITY HALL BUILT 1844, VACATED 1899.





NEW CITY HALL, OPENED FOR PUBLIC BUSINESS SEPTEMBER 18TH, 1899.

ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

CITY OF TORONTO

FOR THE YEAR 1899.

CITY ENGINEER'S OFFICE,
Toronto, December 30th, 1899.

To His Worship the Mayor and Members of the Council of the Corporation of the City of Toronto :

GENTLEMEN,—In compliance with By-law 2534, I have the honor to lay before you the Annual Report of the Department for the year ending the 31st of December, 1899, setting forth the various works carried out during the year, with details of cost of construction, etc.

OFFICIAL STAFF.

The following is a list of the chief officials of the Department :

| | |
|--|---|
| City Engineer, and Chief Engineer and Manager of the Water Works..... | } Charles H. Rust, M. Can. Soc. C.E., M. Am. Soc. C.E. |
| Deputy City Engineer | C. L. Fellowes, C.E. |
| Street Commissioner | John Jones. |
| Asst. Engineer | C. B. Smith, M. Can. Soc. C.E. |
| Asst. Engineer | J. Williams, M. Can. Soc. C.E. |
| Asst. Engineer | W. A. Clement, A. M. Can. Soc. C.E. |
| Asst. Street Commissioner | Wm. J. Evans. |
| Accountant | Wm. McCartney. |
| Chief Clerk | E. P. Roden. |
| Secretary Committee on Works..... | A. H. Clarke. |
| Secretary to City Engineer | Geo. J. Castle. |
| Chief Engineer Main Pumping Station | Alex. McRae. |
| Chief Engineer High Level Pumping Station.. | Wm. Hall. |
| Foreman of Water Works Construction Work.. | Edward Foley. |

WATER WORKS REPORT.

For Water Works matters see separate report.

WORKS DEPARTMENT.

FINANCIAL.

During the year the total expenditure of the Works Department, not including Water Works, was \$945,324.26, which was divided as follows:

| | |
|--|--------------|
| General works | \$235,716 47 |
| Special works | 190,221 42 |
| Street railway track allowance pavements.... | 12,149 04 |
| Local improvements..... | 531,472 38 |
| Bridges, subways, etc | 29,057 49 |
| Departmental and sundry accounts..... | 36,707 46 |
| Total | \$945,324 26 |

The amount expended for Local Improvement Works was divided as follows:

| | |
|------------------------------|--------------|
| Pavements and roadways | \$441,783 64 |
| Concrete sidewalks..... | 32,892 92 |
| Brick sidewalks..... | 1,945 84 |
| Plank sidewalks | 46,353 66 |
| Sewers..... | 8,496 32 |

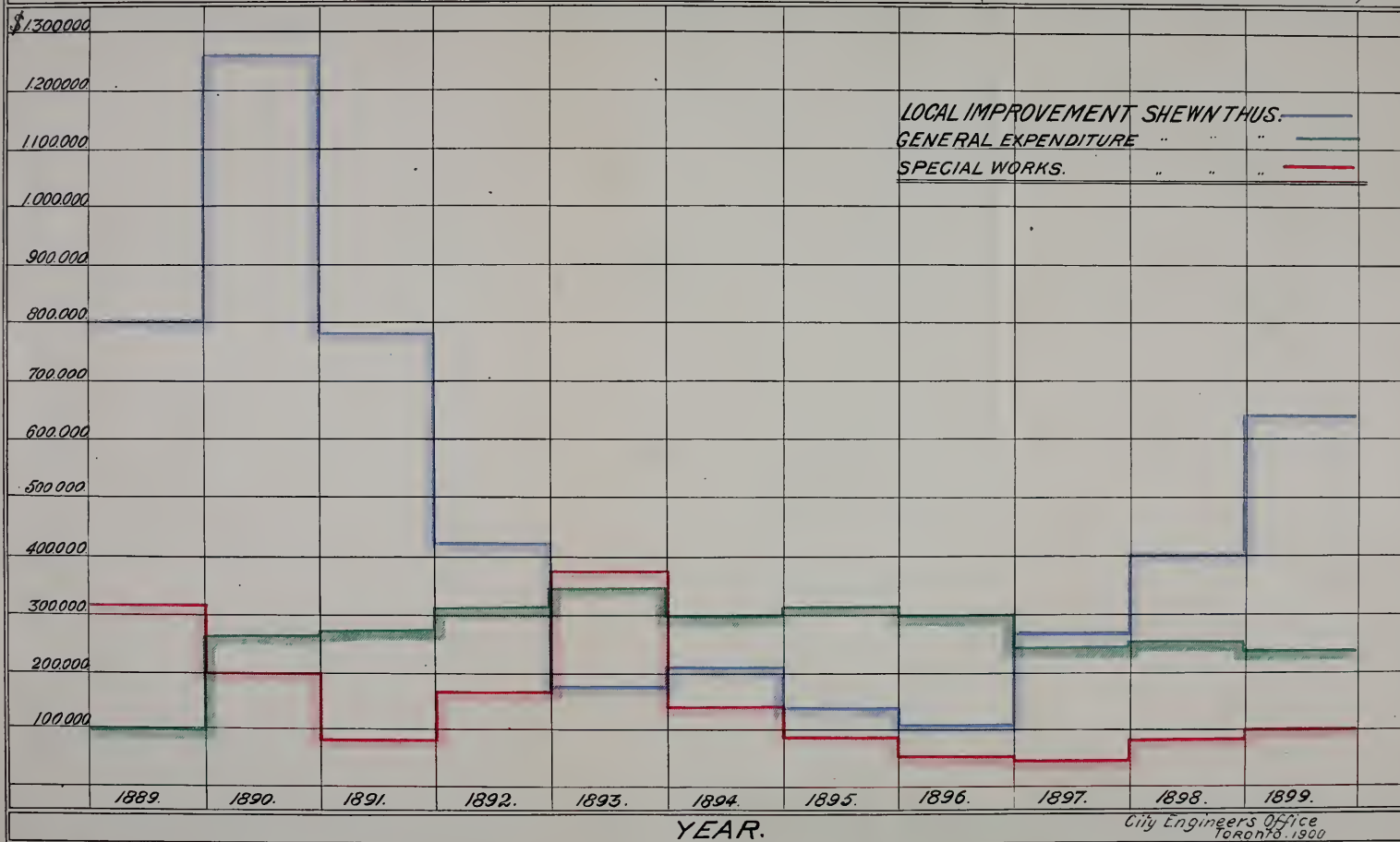
The amount expended in 1898, was \$796,265.60, showing an increase for 1899 of \$149,058.66, or about 15½ per cent. over the amount expended in 1898. The total amount expended by the Department during the year, including Water Works expenditure, was \$1,110,807.80. A diagram is attached to this report showing the expenditure during the past ten years.

STREET RAILWAY MATTERS.

In the Agreement made in 1891, between the Toronto Railway Company and the City, there are a great many matters which come under the jurisdiction of the City Engineer. In the enforcement of this Agreement, a great deal of work is thrown upon the Department, which occupies considerable time, and it appears to me that it would be advisable to have an official whose sole duty would be to look after all Street Railway matters which are specially mentioned in the Agreement as having to be attended to by the City Engineer.

DIAGRAM ILLUSTRATING YEARLY EXPENDITURE. WORKS DEPT. 1889-1899. (NOT INCLUDING WATER WORKS.)

YEARLY EXPENDITURE.



City Engineers Office
Toronto, 1900.

As we are constantly receiving requests from outside Municipalities for a copy of the Agreement between the Toronto Railway Company and the City, I have had it printed and bound with this report, which will be found in Appendix "C."

LOCAL IMPROVEMENT WORKS

A great portion of the work carried out during the year has been the construction, as Local Improvements, of pavements, roadways and sidewalks, the cost of which is assessed upon abutting property, the City paying the cost of the portions of such works which are laid opposite flankages and at street intersections. The preparation of the recommendations and By-laws, etc., in connection with these works, involves a great deal of clerical work. It is found that upon streets where pavements have been once laid as local improvements, there is very little opposition, on the part of the property owners, to the construction of new pavements, or roadways, when the old ones are worn out; but upon streets which were improved at the expense of the City generally, before the passage of the Local Improvement Act, it is very difficult to get the property owners concerned to consent to the improvement of these streets upon the Local Improvement plan.

The Local Improvement Act should, in my opinion, be amended so that where a pavement or roadway on any public street is so worn out as to be dangerous to public traffic and the City Engineer's recommendation for the construction of a new pavement, as a local improvement, has been successfully petitioned against by the property owners concerned, the City Engineer shall have power to recommend the same work a second time, and, provided the second recommendation is confirmed by a two-thirds vote of the members of the Council present and voting, the pavement or roadway shall then be proceeded with, notwithstanding the reception of a fully signed petition against the work. As the law is at present, the City Engineer's recommendation for the construction of a pavement or roadway can be successfully petitioned against by a majority of the owners of abutting property.

The Act has already been amended so that in cases where the construction of plank sidewalks is recommended by the City Engineer and petitioned against, the walks may be recommended a second time and the work proceeded with, after being sanctioned by a two-thirds vote of the members of Council present and voting.

In the construction of sidewalks, the Department is frequently called upon to decide upon the best and most desirable position in which to place the walks, as the property owners sometimes disagree upon this point, some wishing to have them laid next the curb line and others wishing to have them laid in the old positions. It would, I think, be advisable to have a definite policy regarding this matter, and I am of opinion that except upon business streets, where the sidewalks are laid upon all the space between the street line and the curb, the walks should be laid at least eighteen inches inside the curb line, so as to allow space for the erection of poles. It has been the practice in the past to frequently place the sidewalk planks on top of or close to the wooden curb, but when it was necessary to replace this with a more permanent curb, it was found that a great deal of unnecessary expense had to be incurred in removing and relaying the walk to enable the stone or concrete curbing to be set.

In my opinion, the time has arrived when no more plank walks or crossings should be laid upon the public streets.

POWERS OF ELECTRICAL COMPANIES.

I desire to again call attention to the necessity for the Council to adopt a definite policy regarding the powers exercised on our public streets by the various Electrical Companies doing business in the City. The Bell Telephone Company and the Toronto Electric and Incandescent Light Company, have now a considerable quantity of underground work constructed in the public streets. No doubt the time will come when the Toronto Railway Company will be compelled to put their feed-wires underground, and the most satisfactory way of doing this would be for the City to construct subways in our principal streets, and rent ducts therein to this, as well as other Companies wishing to place their wires in them. The occupation of the public streets by underground conduits, and poles and wires, which are owned and controlled by these private corporations, makes it almost impossible for any other Company to become established in the City and enter into competition with the existing Companies. Legislation should therefore be obtained so that the City would be in a position to regulate and control the powers of these corporations upon the public streets, and I am of opinion that the City has grown to such an extent that the services of a competent Electrical Engineer should be employed to look after all these matters.

BRIDGES.

During the year contracts were awarded to the Hamilton Bridge Works Company for the erection of three steel highway bridges at the following points, viz.: crossing the Don River at Queen Street, and also at Eastern Avenue, and crossing the Humber River at the Lakeshore Road. The following are the dimensions and size of these bridges:

Queen Street—125-ft. span, 42-ft. roadway, 2 10-ft. sidewalks.

Humber River Bridge—160-ft. span, 22-ft. roadway, 1 7-ft. sidewalk.

Eastern Avenue Bridge—132-ft. span, 22-ft. roadway, 2 7-ft. sidewalks.

The contract for the abutments of the Queen Street Bridge was awarded to Mr. W. S. Gibson, the contract price being \$13,900. The contractor's time for completion, having expired on the 14th of November, and as he was not carrying out the work as expeditiously as we considered necessary, it was taken out of his hands and completed by the Department, the total cost of the work being \$11,940.

As there was considerable masonry in the old abutments, we specified that stone ashlar, founded on concrete and piles, be used on the west side. On the east bank of the river the foundations were carried down to the rock. At the Eastern Avenue and Humber River Bridges, concrete was used with very satisfactory results. Mr. A. J. Brown was the contractor for the abutments of the Eastern Avenue Bridge, the total cost of the work being \$7,446. The concrete, which consisted of Portland cement in the proportions of one to eight, cost about \$6 per cubic yard. The same contractor had the contract for the Humber River Bridge abutments, where the concrete cost about \$5.50 per cubic yard, the total cost of the work being \$4,473.15. All these abutments were founded on piles. On the Eastern Avenue Bridge the steel work is partly completed, but on the other two bridges no steel has yet been delivered on the ground, and these bridges will not be completed until the summer of 1900.

In connection with the above work, the Department constructed temporary pile trestle bridges crossing the Don River at Queen Street and Eastern Avenue. The piling was done by contract, but the superstructures were constructed by the Department by day labor, a great deal of the timber used being taken from the old wooden

Howe truss bridge, which formerly crossed the Don at Eastern Avenue. The roadway on the Eastern Avenue temporary bridge was eleven feet wide, with one sidewalk four feet wide, and the Queen Street temporary bridge was made wide enough to carry two street car tracks and a sidewalk eight feet wide.

In addition to the above work, various repairs were made to the different bridges, details of which will be found in the report of the Assistant Engineer on Bridge work.

Lamb's Draw Bridge has been subjected to much heavier traffic than the bridge was designed for, and it will be necessary to replace it with a new structure.

Considerable damage was done by freshets, to the eastern crib in the centre of the channel at the Cherry Street Bridge, and it will be reconstructed.

The Glen Road Bridge was in a very dangerous condition, the cast-iron posts for the hand-rail resting on timber joists only, which were very much decayed. These were replaced by 12-in. I beams, placed transversely to the bridge so as to carry it to the hand-rail posts, a cast-iron extension piece being introduced between the I beams and posts, to bring the sidewalk to the necessary level, and an entirely new deck was laid.

SEWERS.

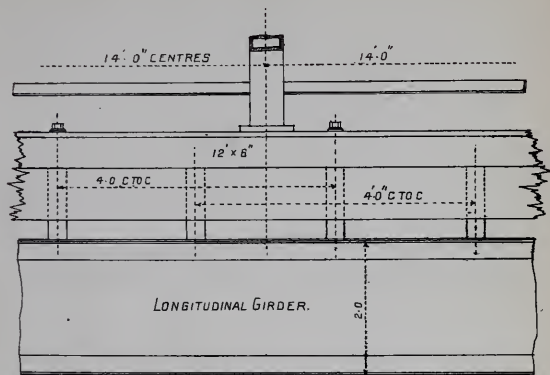
During the year, 6,954 lineal feet of sewers, of all sizes, were constructed. There are now $231\frac{1}{3}$ miles of sewers, of all kinds, in the City.

There was 17,122 feet of 6-in. drains and 1,235 feet of 9-in. drains constructed for house purposes, that is, from connections with the main sewer in the centre of the street, to the street line.

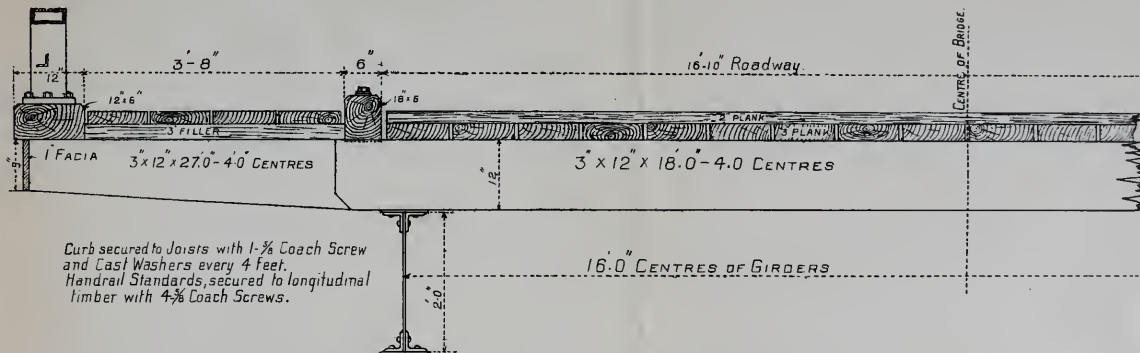
For further information regarding these matters, reference should be made to the report of the Assistant Engineer in charge of Sewer work.

GLEN ROAD BRIDGE.

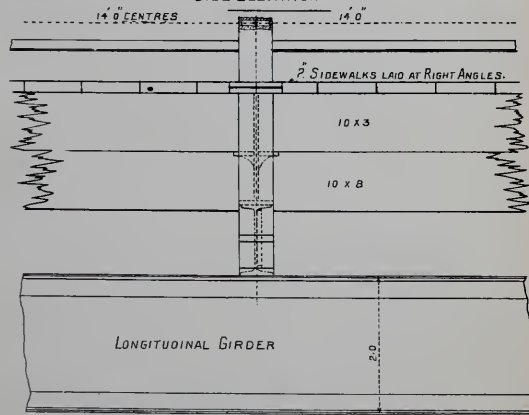
HALF TRANSVERSE SECTION AS ORIGINALLY BUILT.



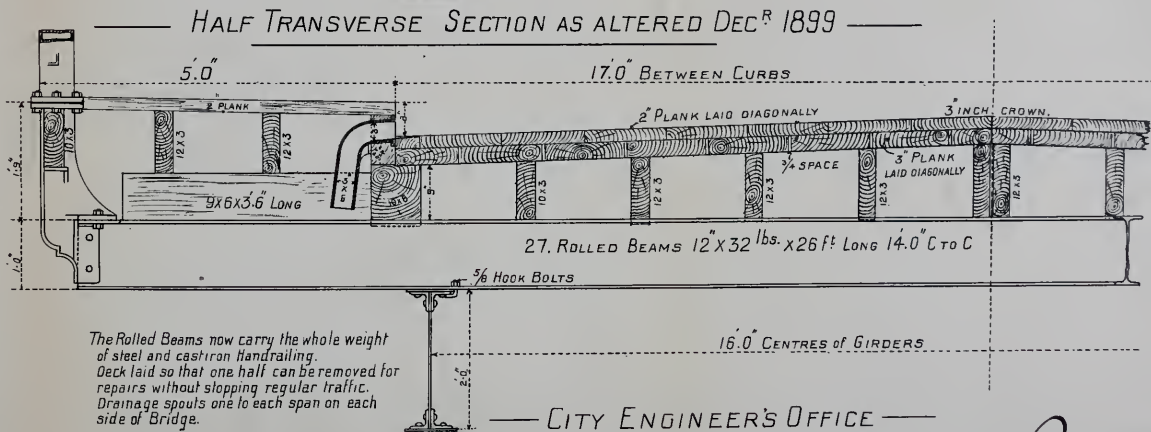
SIDE ELEVATION



Curb secured to Joists with 1- $\frac{1}{2}$ Coach Screw and Cast Washers every 4 feet.
Handrail Standards, secured to longitudinal timber with 4- $\frac{1}{2}$ Coach Screws.



SIDE ELEVATION.



The Rolled Beams now carry the whole weight of steel and castiron Handrailing.
Deck laid so that one half can be removed for repairs without stopping regular traffic.
Drainage spouts one to each span on each side of Bridge.

CITY ENGINEER'S OFFICE
TORONTO OCT. 14TH 1899

C. H. Rush
City Engineer

AREAS AND COAL CHUTES.

On the 27th of June, 1898, the City Council directed, under authority of the Municipal Amendment Act of 1897, chap. 45, s. 21, that all Areas and Coal Chutes in the City be taxed.

The City, for this purpose, has been divided into three districts, lettered A, B, and C, which are constituted as follows:

District A.—That portion of the City bounded by the Bay on the south, Jarvis Street on the east, Shuter and Albert Streets on north, and Simcoe Street on the west.

District B.—That portion of the City lying immediately east, north and west of District A, and extending east to Parliament Street north to Bloor Street, and west to Bathurst Street.

District C.—All the remaining portions of the City situate outside the limits of Districts A and B, above described.

The following is a statement of the number of areas and coal chutes in each of the above districts:

| | | | | |
|--------------------|---------|--------------------|-----|--------------|
| District A | 96,890 | square feet areas; | 100 | coal chutes. |
| “ B | 32,112 | “ “ | 240 | “ |
| “ C | 11,323 | “ “ | 102 | “ |
| <hr/> | | | | |
| Total . . | 140,325 | “ “ | 442 | “ |

The following rentals are charged in the various districts:

| | | | | |
|-------------|------------|---------|-----------------|------------|
| District A— | For areas, | 4 cents | per square foot | per annum. |
| “ B— | “ | 3 cents | “ | “ |
| “ C— | “ | 2 cents | “ | “ |

For coal chutes in each district, 50 cents per annum each.

The above charges produce a revenue of \$5,286.42 per annum.

PAVEMENTS AND ROADWAYS.

Although the mileage of pavements and roadways constructed during the past year is a little less than that of 1898, it will be seen by reference to the report of the Assistant Engineer in charge of this work, that it is of a much more permanent character. The mileage of Gravel roadways has fallen from 4.756 miles constructed in 1898 to 0.069 of a mile constructed in 1899. There has been a steady increase in the quantity of asphalt pavement laid each year, the figures being 0.37 of a mile in 1896: 0.46 of a mile in 1897; 3.4 miles in 1898, and 6.2 miles in 1899.

The total length of pavements, of all kinds, laid during the year, is 21.120 miles, and of concrete and brick sidewalks, 5.766 miles.

In connection with these improvements, 118 contracts were awarded in 1899, in addition to 12 carried over from 1898. The Department was given 26 contracts, our tenders being the lowest received, and the works were done by day labor. In addition to this, 30 private works were superintended, making a total of 186 separate works carried out and superintended by the Pavement and Roadway branch of the Department, during the year.

In the construction of Asphalt pavements, all the material used during the past six years has been Trinidad Pitch Lake Asphalt, and since 1896 contractors have had to guarantee their pavements for ten, instead of five years, as formerly; fifteen per cent. of the amount of their contracts being retained during this period. This extended period of maintenance has been found to work very satisfactorily. A great deal of the asphalt between the street railway tracks, which was laid in 1892 and 1893, became so worn that it was impossible to repair it. This was taken out and replaced with bricks and scoria blocks.

In the construction of brick pavements, during the past year, a foundation of broken stone has been used instead of gravel, upon some streets where the traffic is light, but a foundation of concrete is still used on a majority of the streets paved with bricks. The bricks were laid diagonally with the direction of the street, and an inch board placed between the curb and the pavement until the completion of the work, when it was removed and the space filled with paving pitch. This was done to, if possible, lessen the noise, which has been one of the great objections to this class of pavement. The pitch will also allow expansion to take place without arching the pavement.

Upon several streets where the property owners could not afford to pay for a first-class pavement, the old cedar blocks have been taken up and new ones laid on the existing gravel foundations. The cost of this work is from 50 to 60 cents per square yard, and it has given satisfaction. These pavements will remain in good condition for six or seven years, at the end of which time the property owners concerned, will probably be able to bear the expense of the construction of a much better class of pavement.

With reference to macadam roads, the quality and quantity of macadam supplied has not been satisfactory to the Department, and I think the time has arrived when the City should purchase and operate a stone quarry. One or two quarries have been examined with this object in view, but the difficulty is to get a quarry within such a reasonable distance of the City that the freight rates would not make the cost of the material so high as to prohibit its use. If a quarry could be procured on the shores of Lake Ontario, so that the stone could be delivered by water, it would be much more satisfactory than having a quarry inland. The Department was also somewhat hampered this year in not having another steam road roller, but the Council has awarded the contract for an additional one, which I trust will be delivered and ready for work in the spring.

During the past year, the City Engineer has submitted tenders for the various works, which were opened with those received from the different contractors, with the result that the Council ordered the Department to carry out several works by day labor. This practice of tendering by the Department, works well, and acts as a check upon the contractors in case they wish to form a combine to increase prices. It would, however, if this practice is to be continued, be to the advantage of the City to largely increase the existing City plant, so that the Department would be in a position to proceed with the work more expeditiously and economically than can now be done.

In the report of the Assistant Engineer in charge of Pavement and Roadway work, there is a statement of the Day Labor Works carried out by the Department, comparing the cost of these works with the figures contained in the tenders received, which were the next lowest to those submitted by the Department, by which it will be seen that the sum of \$2,584 was saved to the property owners concerned, by reason of the contractors reducing their tenders, after the Department had been ordered by the Council to carry out these works by day labor, and taking the contracts therefor at the figures mentioned in the tenders of the Department; and that the sum of \$5,786.44 was saved, and \$1,760.43 lost, which leaves a net saving of \$4,026.01 to the property owners concerned, in the execution of these Day Labor Works by the Department.

In the paving of the track allowance on King Street, from Sherbourne Street to Simcoe Street, which the Department took out of the

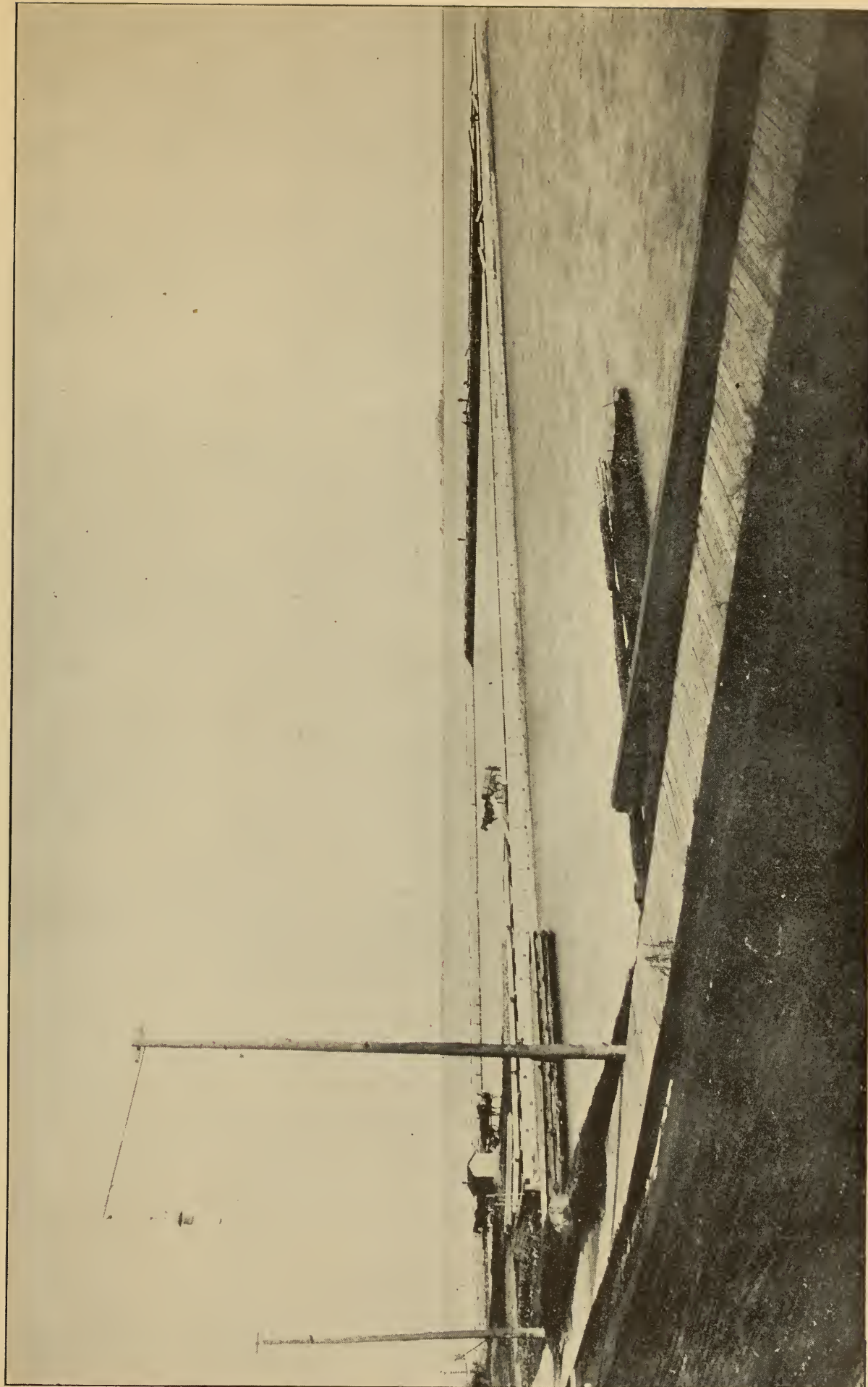
contractors' hands, work was carried on day and night, and the existing asphalt pavement was replaced with scoria blocks, $3\frac{1}{2}$ inches by 4 inches by 8 inches. On a portion of this track allowance only the $2\frac{1}{2}$ inches of the asphalt surface was removed, and a surface of concrete substituted, which was composed of one part of the best Portland cement to two parts of crushed granite. A row of scoria blocks were placed, as stretchers, on each side of the rails. Thus far this work has proved very satisfactory, and it is our intention to do a great deal more of it in the future.

TRAFFIC ON MAIN BUSINESS STREETS.

In connection with our main business streets, there is a very important matter which will shortly have to be considered and dealt with, viz., the necessity of relieving the ever-increasing traffic on these streets, by properly paving parallel streets to Yonge Street and Queen Street. Victoria Street if properly paved, even as far as Gerrard Street, would very much relieve the congestion of traffic now existing on Yonge Street, at Queen Street, especially between twelve and one o'clock in the forenoon, and after six p.m. Teraulay Street should also be paved, and, if possible, opened through to Grenville Street, so as to form a connection with St. Vincent Street. If this were done, and St. Vincent Street, Chapel Lane and North Street properly paved, it would further assist in relieving Yonge Street of traffic. Adelaide Street and Defoe Street should also be placed in good condition from Jarvis Street to Shaw Street, and if the proposed Cross Town Line of street railway is constructed, the paving of the track allowance would prove of great utility to bicyclists, and have a tendency to relieve Queen and College Streets of a large portion of traffic.

SIDEWALKS.

The construction of sidewalks of a permanent character has greatly increased. This is largely owing to the City Council, upon the recommendation of the City Engineer, prohibiting the laying of plank sidewalks in a certain section of the City, which, I think, might be extended with good results. Concrete and brick sidewalks are now constructed at such a reasonable figure, that, by extending the time for payment over ten years, the annual assessment on the property owners concerned, is no more than what the annual assessment for a plank walk would be, payment for which has to be made in three years.



HARBOUR SQUARE CRIBBING
1899

In the report of the Assistant Engineer in charge of this work, will be found a number of tables concerning pavement and roadway work.

SEWAGE DISPOSAL.

During the past year this matter has been again under consideration, and the Sewage Disposal Works at Madison, Wisconsin, and also the small septic tank at Champaign, Ill., were visited by me and a report made to the City Council regarding the matter.

CITY SAND PUMP.

The City sand pump commenced work on the 17th of April, and continued working until the close of navigation. The cost of operating the pump for the entire season, was \$4,089.25, and the quantity of material excavated, 56,134 cubic yards, or 7.28 cts. per cubic yard.

HARBOR SQUARE CRIBWORK.

The contract was awarded to W. J. Bryce for the construction of some 1,200 feet of cribwork, enclosing an area on the water front of nearly four acres, the expenditure upon which, up to the end of the year, was \$25,361.

STREET COMMISSIONER'S DEPARTMENT.

The Street Commissioner has charge of the construction of plank sidewalks, repairing of macadam, cedar block and unimproved roadways, cleaning of street gullies, street cleaning, street watering and scavenging, which work is all carried out by day labor.

Full information regarding the work performed by this Department, can be had by reference to the report of Mr. John Jones, Street Commissioner, which is attached hereto. In his report is given an outline of the system of the collection and disposal of garbage, etc., which was read by him at the meeting of the American Society of Municipal Improvements, held in this City in October last, which is very interesting reading.

Respectfully submitted.

C. H. RUST,
City Engineer.

PAVEMENTS, ROADWAYS AND CEMENT CONCRETE
SIDEWALKS.

CITY ENGINEER'S DEPARTMENT,
Toronto, December 30th, 1899.

C. H. RUST, ESQ.,
City Engineer.

DEAR SIR,—Herewith I submit the Annual Report, showing in detail the work done under the supervision of the Pavement and Roadway Branch of the Works Department.

Although the mileage of pavements and roadways constructed during the year 1899 is a little less than that of 1898, it will be seen by reference to Table No. 2 that it is of a much better class: the mileage of gravel roadways having fallen from 4.756 miles in 1898 to 0.069 of a mile in 1899, and asphalt increased from 3.4 to 6.2 miles. The total length of pavements laid during the year is 21.120 miles and 5.766 miles of concrete and brick sidewalks.

In connection with these improvements, 118 contracts were let in 1899 and 12 were carried over from 1898. In addition to these, the City being the lowest tenderer in several cases, 26 works were ordered to be done by day labor and 30 private contracts for cement concrete walks were superintended, making a total of 186 separate works carried out by this Department, which are classified in the following table :

TABLE No. 1.

| <i>Class of Work.</i> | <i>No. of Works.</i> |
|--|----------------------|
| Asphalt | 30 |
| Brick on concrete | 13 |
| Brick on gravel | 4 |
| Brick on broken stone | 6 |
| Cedar block on concrete | 1 |
| Cedar block on gravel.... | 18 |
| Gravel | 1 |
| Macadam | 24 |
| Tamarac block on concrete | 1 |
| Reconstruction of track allowances (brick and scoria)..... | 5 |
| Concrete sidewalks | 49 |
| Brick sidewalks | 4 |
| Private contracts (sidewalks)..... | 30 |
| Total | 186 |

The above works and those which were proposed, but not carried out, necessitated the preparing of 150 plans and 757 estimates.

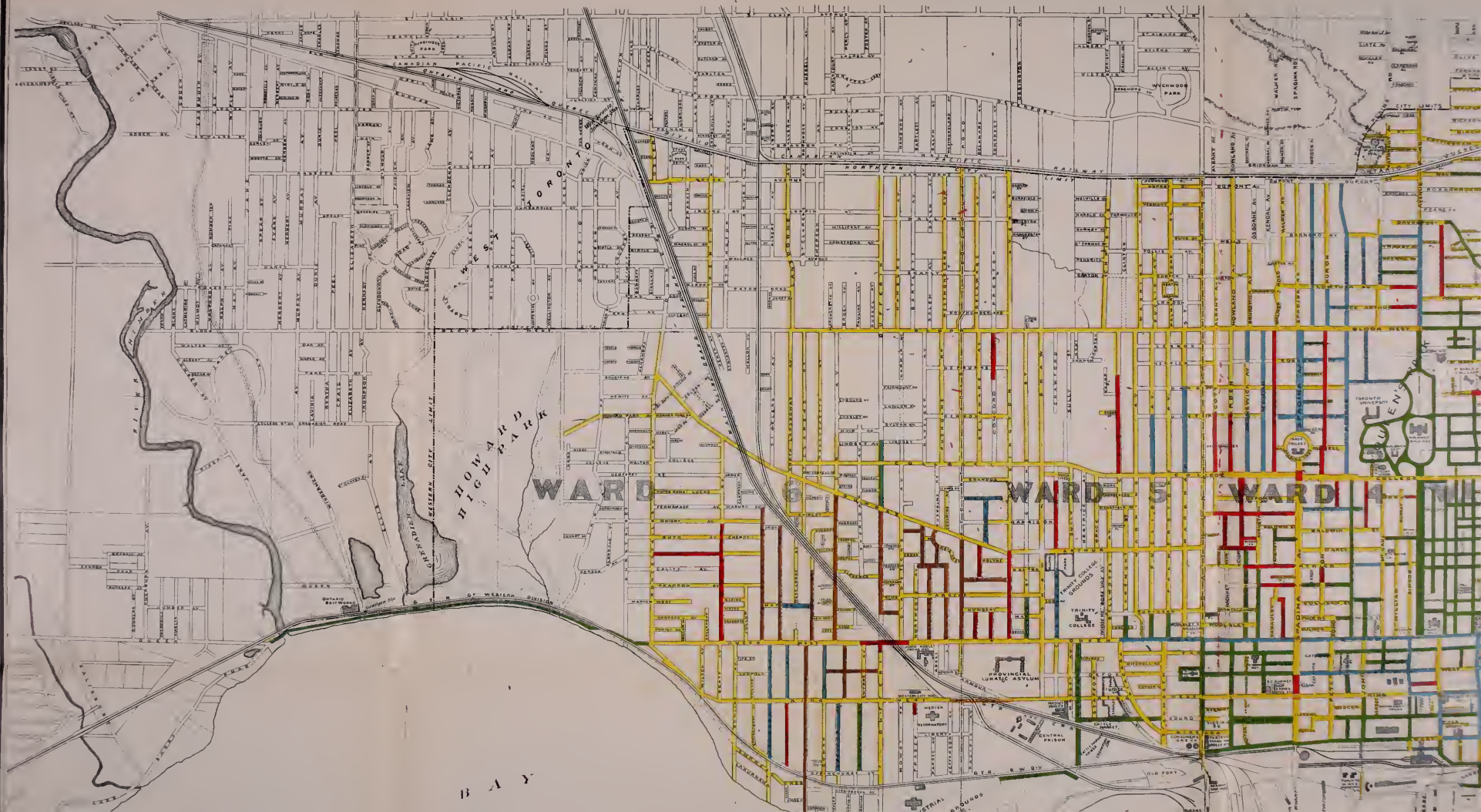
TABLE No. 2.
MILEAGE OF DIFFERENT CLASSES OF PAVEMENTS, ROADWAYS AND SIDEWALKS LAID FROM 1890 TO 1899.

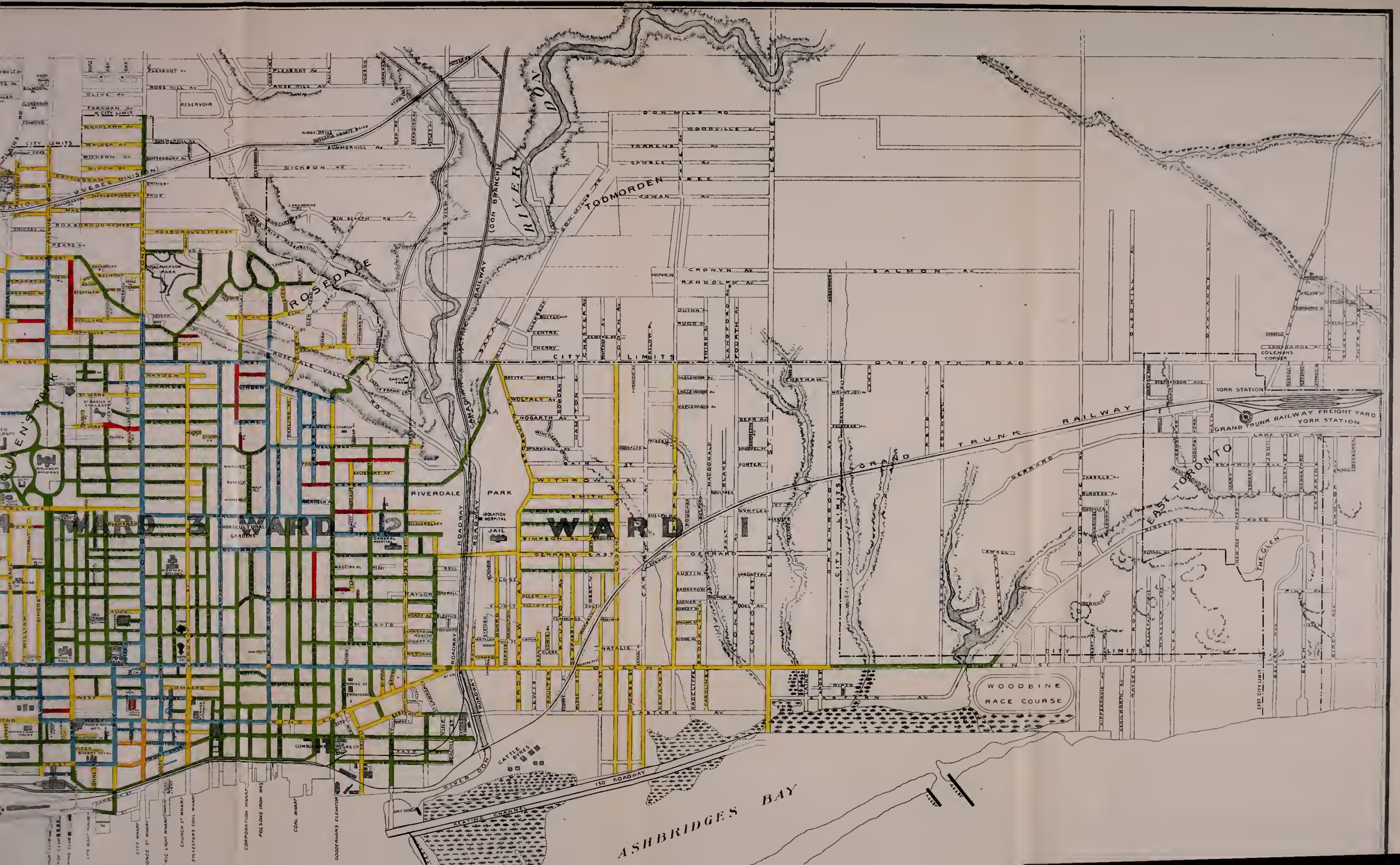
| Class of Work. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. | 1899. |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. |
| <i>Pavements and Roadways.</i> | | | | | | | | | | |
| Asphalt | 1.73 | 1.635 | 6.216 | 5.607 | 3.067 | 1.156 | 0.366 | 0.460 | 3.408 | 6.215 |
| Cedar block on sand and plank foundation | 15.51 | 9.186 | 3.349 | 3.249 | 0.852 | 1.753 | 0.428 | 2.459 | 4.831 | 3.151 |
| Macadam | ... | 0.123 | 0.494 | ... | 0.059 | 1.663 | 1.661 | 0.510 | 2.089 | 5.013 |
| Cobble | 0.10 | 0.069 | 0.366 | ... | ... | ... | ... | ... | ... | ... |
| Tamarac on concrete | 0.192 | 0.077 | ... | ... | ... | ... | ... | ... | ... | 0.067 |
| Cedar block on concrete. | ... | ... | 8.416 | 2.185 | 0.826 | 0.227 | 0.038 | ... | 0.084 | 0.079 |
| Stone setts on concrete | ... | ... | 0.705 | 3.743 | 2.563 | 0.085 | ... | ... | ... | ... |
| Scoria blocks on concrete | 0.138 | ... | 0.028 | ... | ... | 0.117 | ... | ... | 2.986 | 1.367 |
| Brick on concrete | ... | ... | ... | 3.964 | 0.787 | 0.744 | 1.032 | 5.803 | 6.079 | 3.670 |
| Brick on gravel | ... | ... | ... | ... | ... | ... | 0.028 | 0.838 | 0.352 | 0.943 |
| Brick on broken stone | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.546 |
| Concrete pavements in lanes | ... | ... | ... | ... | ... | 0.071 | ... | ... | 0.057 | ... |
| Gravel | ... | ... | ... | ... | ... | ... | ... | 3.138 | 4.756 | 0.069 |
| Totals | 17.670 | 11.090 | 19.574 | 18.748 | 8.154 | 5.816 | 3.553 | 13.208 | 24.642 | 21.120 |
| <i>Sidewalks.</i> | | | | | | | | | | |
| Concrete | 1.426 | 1.930 | 1.508 | 2.259 | 1.137 | 1.918 | 0.612 | 1.050 | 2.548 | 5.474 |
| Stone flag | 1.273 | 0.398 | 0.104 | 0.035 | 0.011 | ... | ... | ... | ... | ... |
| Brick | ... | ... | ... | ... | ... | ... | 0.204 | 0.823 | 1.188 | 0.292 |
| Totals | 2.699 | 2.328 | 1.612 | 2.294 | 1.148 | 1.918 | 0.816 | 1.873 | 3.736 | 5.766 |

The first pavements and roadways laid under the Local Improvement system, were constructed during the year 1881, and the annual variation in the mileage of paved and unpaved streets, with classification of same up to the end of the year 1899, is shown in the following Table No. 3 :

TABLE No. 3.
SHOWING THE DIFFERENT CLASSES OF PAVEMENTS AND ROADWAYS AND MILEAGE OF SAME FROM 1881 TO 1899.

| Year. | Cedar Block. | Stone and Scoria. | Asphalt. | Wood on Concrete. | Macadam. | Cedar Block with Asphalt on Track Allowance. | Cedar Block with Brick on Track Allowance. | Macadam with Stone Setts on Track Allowance. | Brick. | Gravel. | Unpaved. | Total Mileage. |
|-------|--------------|-------------------|----------|-------------------|----------|--|--|--|--------|---------|----------|----------------|
| | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. | Miles. |
| 1881 | 3.51 | 0.03 | ..... | ..... | 50.92 | ..... | ..... | ..... | ..... | ..... | 62.39 | 116.85 |
| 1882 | 13.41 | 0.03 | ..... | ..... | 48.28 | ..... | ..... | ..... | ..... | ..... | 55.13 | 116.85 |
| 1883 | 26.90 | 0.03 | ..... | ..... | 54.57 | ..... | ..... | ..... | ..... | ..... | 54.07 | 135.57 |
| 1884 | 33.76 | 0.25 | ..... | ..... | 52.32 | ..... | ..... | ..... | ..... | ..... | 76.77 | 163.10 |
| 1885 | 39.84 | 0.25 | ..... | ..... | 50.17 | ..... | ..... | ..... | ..... | ..... | 75.98 | 166.24 |
| 1886 | 48.99 | 0.36 | ..... | ..... | 47.36 | ..... | ..... | ..... | ..... | ..... | 72.18 | 168.89 |
| 1887 | 64.11 | 0.36 | 0.07 | ..... | 45.14 | ..... | ..... | ..... | ..... | ..... | 59.21 | 168.89 |
| 1888 | 79.55 | 0.36 | 0.25 | ..... | 42.76 | ..... | ..... | ..... | ..... | ..... | 49.87 | 172.79 |
| 1889 | 92.39 | 0.36 | 3.36 | ..... | 38.65 | ..... | ..... | ..... | ..... | ..... | 107.43 | 242.19 |
| 1890 | 109.57 | 0.36 | 5.08 | ..... | 36.63 | ..... | ..... | ..... | ..... | ..... | 90.55 | 242.19 |
| 1891 | 116.83 | 0.59 | 6.66 | 0.49 | 36.39 | ..... | ..... | ..... | ..... | ..... | 89.44 | 250.40 |
| 1892 | 116.86 | 0.65 | 10.49 | 0.49 | 36.98 | 2.35 | ..... | ..... | ..... | ..... | 84.89 | 252.71 |
| 1893 | 112.19 | 0.79 | 11.28 | 0.49 | 34.98 | 7.06 | 3.97 | 0.54 | ..... | ..... | 82.05 | 253.35 |
| 1894 | 111.16 | 0.81 | 13.70 | 0.49 | 35.95 | 6.35 | 4.50 | 0.54 | ..... | ..... | 79.98 | 253.48 |
| 1895 | 109.78 | 0.81 | 14.38 | 0.49 | 39.15 | 6.35 | 4.85 | 0.73 | 0.38 | ..... | 79.48 | 256.40 |
| 1896 | 108.70 | 0.81 | 14.61 | 0.53 | 39.71 | 6.35 | 4.93 | 0.70 | 1.32 | ..... | 79.74 | 257.40 |
| 1897 | 101.36 | 0.81 | 15.07 | 0.53 | 40.50 | 5.42 | 8.28 | 1.08 | 3.58 | 3.22 | 78.45 | 258.30 |
| 1898 | 94.90 | 0.65 | 18.30 | 0.61 | 41.91 | 3.73 | 7.43 | 1.26 | 5.91 | 4.56 | 78.67 | 257.93 |
| 1899 | 81.77 | 0.65 | 24.33 | 0.67 | 45.03 | 3.15 | 10.52 | 0.97 | 8.77 | 5.03 | 78.14 | 259.03 |





PLAN
OF THE
CITY OF TORONTO





CITY ENGINEER'S OFFICE.
TORONTO, 1899.

Chas. Ross
CITY ENGINEER

TABLE No. 4.

SHOWING PERCENTAGE OF DIFFERENT CLASSES OF PAVEMENTS AND ROADWAYS
IN THE CITY.

| | |
|--|-----------------|
| Cedar block..... | 31.57 per cent. |
| Stone and scoria..... | .25 “ |
| Asphalt..... | 9.39 “ |
| Brick..... | 3.39 “ |
| Wood on concrete..... | .26 “ |
| Macadam..... | 17.38 “ |
| Gravel..... | 1.94 “ |
| Cedar block with asphalt between tracks..... | 1.22 “ |
| Cedar block with brick between tracks..... | 4.06 “ |
| Macadam and stone setts between tracks..... | .37 “ |
| Unpaved..... | 30.17 “ |
| | <hr/> 100.00 “ |

ASPHALT PAVEMENTS.

Asphalt continues to increase in favor, the number of miles laid this year being 6.2, which shows a very marked increase over the 3.4 miles laid last year; 0.46 of a mile in 1897, and 0.37 of a mile in 1896.

All the asphalt used during the last six years has been “Trinidad Pitch Lake,” and since 1896 we have required the contractors to guarantee and keep the pavements in repair for ten years from the date of their completion; 15 per cent. of the amount of the contract being retained during that time.

This extended period of maintenance has been found very beneficial, as we are now getting a very high grade of asphalt work. The first pavements, which were laid under a ten-year guarantee, have been down now nearly four years, and show no signs of deterioration.

The quantities, prices and other details connected with the asphalt pavements laid this year, may be seen by reference to Tables Nos. 7 and 8.

The sections of streets paved with asphalt, on which the contractors' terms of guarantee have expired, will be found in Table No. 5. These pavements are being kept in repair at the general City expense, the repairing being done by contract at \$1.34 and \$1.24 per square yard for 2½-inch and 2-inch surface respectively.

TABLE No. 5.
SHOWING STREETS PAVED WITH ASPHALT UPON WHICH THE CONTRACTORS'
GUARANTEES HAVE EXPIRED.

| Street. | From | To | Length. Feet. | Date of Expiry of Guarantee. | |
|---|---------------------|----------------------|------------------|---------------------------------|------|
| Bay | King | Front | 932 | Nov. 20, | 1893 |
| Jarvis | Queen | Bloor | 6,734 | Oct. 1, | 1894 |
| St. George | Bloor | Bernard | 2,025 | Oct. 9, | 1894 |
| Wellington | Church | Yonge | 900 | June 28, | 1894 |
| Sherbourne | Queen | Bloor | 6,786 | June 1, | 1895 |
| Simcoe | King | Queen | 1,182 | Aug. 1, | 1895 |
| St. George | Bernard | Dupont | 966 | June 14, | 1895 |
| Ontario | Carlton | Howard | 2,824 | July 28, | 1895 |
| Sherbourne | King | Queen | 1,160 | July 2, | 1895 |
| Bloor, | Yonge | Sherbourne | 2,661 | Nov. 18, | 1895 |
| Scott | Front | Colborne | 374 | Nov. 7, | 1895 |
| Wellington | Bay | York | 848 | July 18, | 1896 |
| Gerrard | Jarvis | Sherbourne | 934 | July 24, | 1896 |
| Melinda | Yonge | Bay | 587 | Aug. 5, | 1896 |
| Jordan | Wellington | King | 379 | Aug. 5, | 1896 |
| Sherbourne | The Bridge | South Drive | 1,076 | Nov. 11, | 1896 |
| Bay | King | Queen | 1,175 | Aug. 15, | 1896 |
| St. George | College | Bloor | 3,286 | Sept. 25, | 1896 |
| Toronto | N. line stone pav't | Adelaide | 349 | May 1, | 1897 |
| Adelaide | York | Spadina | 3,001 | July 21, | 1897 |
| Victoria | King | Adelaide | 414 | Sept. 1, | 1897 |
| Rose | Howard | Winchester | 2,134 | Sept. 1, | 1897 |
| Yonge | King | Hayter | 4,000 | Nov. 9, | 1897 |
| St. James | Ontario | Parliament | 595 | Sept. 7, | 1897 |
| Yonge | Hayter | Grenville | 944 | Nov. 14, | 1897 |
| Devonshire Pl. ... | Hoskin | Bloor | 1,228 | Sept. 30, | 1897 |
| Yonge | Grenville | Bloor | 3,099 | Nov. 25, | 1897 |
| Richmond | Victoria | Bay | 852 | June 27, | 1898 |
| Earl | Sherbourne | West terminus | 634 | July 13, | 1898 |
| Winchester | Parliament | Sumach | 1,512 | Aug. 24, | 1898 |
| Munn's Lane | Wellington | 218 feet north | 218 | Aug. 23, | 1898 |
| Czar | Yonge | North | 666 | Sept. 25, | 1898 |
| College | Yonge | McCaul | 2,806 | Sept. 28, | 1898 |
| Parliament | Queen | Gerrard | 2,490 | Sept. 27, | 1898 |
| Parliament | Winchester | Carlton | 466 | Sept. 22, | 1898 |
| Parliament | Gerrard | Carlton | 880 | Sept. 23, | 1898 |
| Lane around Inland Revenue Office | | | 265 | Oct. 5, | 1898 |
| York (track allow.) | Front | Queen | 2,066 | Oct. 18, | 1898 |
| Linden | Sherbourne | Huntley | 585 | Oct. 21, | 1898 |
| Hoskin | St. George | Queen's Pk Cr. | 1,130 | June 27, | 1899 |
| Carlton | Jarvis | Sherbourne | 937 | June 7, | 1899 |
| Queen | Yonge | River | 6,084 | July 14, | 1899 |
| Bleeker | Carlton | Wellesley | 1,412 | July 5, | 1899 |
| Wellesley | Sherbourne | Parliament | 1,227 | Sept. 25, | 1899 |
| Cecil | Spadina | Beverley | 1,052 | Sept. 27, | 1899 |
| McCaul | Queen | College | 3,384 | Nov. 5, | 1899 |
| Adelaide | Yonge | Church | 903 | Nov. 8, | 1899 |
| King | Simcoe | Sherbourne | 4,999 | June 15, | 1899 |

BRICK PAVEMENTS.

There has been a slight decrease in the brick pavement work this year, the total length being 5.2 miles, and a little over six miles in each of the preceding years. The foundation on which the bricks have been laid has been mostly four inches of Portland cement concrete, as will be seen by referring to Table No. 2, the balance being on either gravel or broken stone.

Broken stone, as a foundation, is gradually being adopted in the place of gravel, and should produce better results, for it can be rolled into a much more solid and unyielding mass, as gravel has a great tendency towards crowding, or forming a wave in front of the roller.

The bricks in all our pavements this year have been laid diagonally with the direction of the street, an inch board being placed between the curb and the pavement until the brick work is completed, then this board is removed, and the space filled with boiling paving pitch.

The laying of the bricks diagonally and the pitch filling has been done with the object of alleviating the objectionable noise, the pitch being soft during hot weather, when the pavement is liable to expand, it may allow the expansion to take place without arching the pavement, and possibly prevent the hollow rumbling sound caused by vehicles.

All the details regarding the brick pavements laid during the year may be seen by reference to Tables 7 and 8.

CEDAR BLOCK PAVEMENTS.

The amount of cedar block pavement laid this year is less than that of 1898, being 3.3 miles and five miles the year before, nearly all of it has been the relaying of existing, but worn-out roads of this class. There are two exceptions, however, viz., Bay Street and Scott Street, which were laid on concrete foundations, and for details see Tables Nos. 7 and 8.

Table No. 6 shows those sections of streets on which the final assessment for pavements has been paid, or will be paid, during the ensuing year. On a large proportion of the streets in the following table, the pavements are beyond repair.

TABLE No. 6.

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-----------------------|----------------------|----------------------|--------------------|-----------------|----------------------------|
| Abbs | Brock | West terminus . . | C. B. . . | 1891 | 1896 |
| Adelaide | York | Spadina | Asphalt. | 1892 | 1900 |
| Albany Av. | Bloor | Wells | C. B. . . . | 1889 | 1899 |
| Alexander | Church | McMillan | " | 1884 | 1894 |
| Alice | Yonge | Teraulay | " | 1889 | 1899 |
| Allan Av. | Broadview Av. . . | Bolton Av. | " | 1887 | 1897 |
| Alma Av. | Gladstone Av. . . | Dufferin | " | 1887 | 1897 |
| Argyle | Dundas | Givens | " | 1887 | 1897 |
| Argyle | Givens | Shaw | " | 1887 | 1897 |
| Argyle | Dundas | Gladstone | " | 1895 | 1900 |
| Arthur | Euclid Av. | Bridge | " | 1886 | 1897 |
| Arthur | Dundas | Bridge | " | 1884 | 1895 |
| Augusta Av. | Nassau | College | " | 1886 | 1896 |
| Augusta Av. | St. Patrick | Nassau | " | 1889 | 1898 |
| Avenue Pl. | Avenue Rd. | Hazelton Av. . . . | " | 1887 | 1897 |
| Avenue Rd. | Davenport Rd. . . | N. City St. limit. | " | 1890 | 1900 |
| Baldwin | Beverley | Spadina Av. | " | 1895 | 1900 |
| Balmuto | Bloor | Czar | " | 1884 | 1895 |
| Barton Av. | Palmerston Av. . . | Euclid Av. | " | 1892 | 1897 |
| Barton Av. | Manning Av. . . . | Euclid Av. | " | 1890 | 1900 |
| Bathurst | S. s. Bridge | N. Ry. gate | " | 1886 | 1897 |
| Bathurst | College | Bloor | " | 1884 | 1895 |
| Bathurst | College | Queen | " | 1889 | 1898 |
| Bathurst | Bloor | C. P. Ry. | " | 1890 | 1900 |
| Bay | King | Front | Asphalt. | 1889 | 1898 |
| Bay | King | Queen | " | 1891 | 1899 |
| Bedford Rd. | Bernard Av. | Davenport Rd. . . | " | 1889 | 1898 |
| Bedford Rd. | Bloor | Lowther | " | 1890 | 1900 |
| Belmont | Yonge | Davenport Rd. . . | " | 1887 | 1897 |
| Bellwoods Av. | Queen | Mansfield | " | 1883 | 1892 |
| Bernard Av. | Bedford Rd. | St. George | " | 1889 | 1899 |
| Berryman | Davenport Rd. . . | Hazelton Av. . . . | " | Yorkville | 1897 |
| Birch | Yonge | West terminus . . | " | 1890 | 1900 |
| Bishop | Davenport Rd. . . | West terminus . . | " | 1886 | 1896 |
| Bismarck Av. | Yonge | Gwynne Av. | Macad'm | 1891 | 1897 |
| Bismarck Av. | Gwynne | East end | C. B. . . . | 1891 | 1897 |
| Bleeker | Wellesley | Howard | " | 1893 | 1898 |
| Bloor | Yonge | Sherbourne | Asphalt. | 1890 | 1900 |
| Bloor | Avenue Rd. | Bathurst | C. B. . . . | 1889 | 1900 |
| Booth Av. | Queen | Eastern Av. | " | 1891 | 1896 |
| Booth Av. | Queen | G. T. Ry. | " | 1889 | 1899 |
| Borden | Ulster | Bloor | " | 1886 | 1897 |
| Boswell Av. | Avenue Rd. | West terminus . . | " | 1886 | 1897 |
| Bridge | Bloor | Elm Av. | " | 1890 | 1900 |
| Brighton | Pape Av. | East end | " | 1890 | 1899 |
| Broadview Av. | Withrow Av. . . . | Danforth Av. . . . | " | 1890 | 1898 |
| Broadview Av. | Queen | Gerrard | " | 1887 | 1897 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-------------------------|---------------------|---------------------|--------------------|-----------------|----------------------------|
| Broadview Av. | Gerrard | Withrow Av | C. B. | 1887 | 1897 |
| Broadview Av. | Queen | Eastern Av. | " | 1891 | 1896 |
| Brook | Logan Av | Howland Rd | " | 1888 | 1898 |
| Brooklyn | Queen | North end | " | 1887 | 1897 |
| Brock | Muir | College | " | 1888 | 1898 |
| Brock | Dundas | College | " | 1888 | 1895 |
| Brown(now Seaforth Av.) | Brock | West terminus .. | " | 1891 | 1896 |
| Brownsville La. | St. Joseph | St. Alban | " | 1889 | 1900 |
| Bruce | Shaw | Givens | " | 1892 | 1897 |
| Brunswick Av. | Bloor | Wells | " | 1889 | 1899 |
| Brunswick Av. | Ulster | Sussex | " | 1884 | 1895 |
| Brunswick Pl.. | Walmer Rd.... | Brunswick Av .. | " | 1890 | 1900 |
| Buchanan | Yonge | Teraulay | " | 1883 | 1892 |
| Bulwer | Spadina | Soho | " | 1889 | 1899 |
| Casimir | St. Patrick | N. to a lane | " | 1889 | 1898 |
| Callendar | Queen | North terminus.. | " | 1890 | 1898 |
| Carlaw Av | Queen | Eastern Av. | " | 1889 | 1899 |
| Carlaw Av | Eastern Av.... | The Bay | " | 1885 | 1897 |
| Carlaw Av | Eastern Av.... | South end | " | 1885 | 1897 |
| Carlton | Sumach | East end | " | 1886 | 1897 |
| Caroline | Queen | Eastern Av. | " | 1889 | 1899 |
| Carr | Esther | End of Carr | " | 1894 | 1899 |
| Cawthra Sq ... | Jarvis | West end | " | 1891 | 1897 |
| Cherry | Sorauren Av .. | Roncesvalles Av. | " | 1888 | 1898 |
| Christie | Bloor | Melville | " | 1891 | 1898 |
| Church | King | Gerrard | " | 1886 | 1897 |
| Church | King | Front | " | 1887 | 1897 |
| Church | Gerrard | Bloor | " | 1887 | 1897 |
| Churchill Av . | Term. of Pav't. | 136 feet east | " | 1893 | 1898 |
| Clarence | Wellington.... | North end | " | 1886 | 1897 |
| Clara | Oak | Orford | " | 1886 | 1896 |
| Claremont | Robinson | Mansfield Av.... | " | 1887 | 1897 |
| Clinton | 473 ft. s. of Bloor | 891 ft. s. of Bloor | " | 1891 | 1897 |
| Clifford | Stafford | Strachan Av | " | 1887 | 1897 |
| Clyde (now Baldwin.) | Spadina Av.... | Augusta Av | " | 1887 | 1897 |
| College | Dufferin | Lansdowne Av .. | " | 1888 | 1896 |
| College | Beverley | Spadina Av | " | 1882 | 1892 |
| College | McCaul | Beverley | " | 1883 | L'd by City |
| College | Spadina Av.... | Bathurst | " | 1884 | 1894 |
| College | McCaul | Yonge | " | 1885 | L'd by City |
| College | Ossington Av.. | Bathurst | " | 1887 | 1897 |
| College | Ossington Av.. | Dufferin | " | 1887 | 1897 |
| College, s.s.... | Spadina Av.... | Augusta Av | " | 1890 | 1899 |
| Coolmine Rd . | Dundas | St. Anne's Rd ... | " | 1889 | 1899 |
| Cottingham ... | Yonge | Avenue Rd | " | 1886 | 1896 |
| Cottingham ... | Rathnally Av.. | Poplar Plains Rd | " | 1889 | 1899 |
| Cottingham ... | Avenue Rd.... | Rathnally Av.... | " | 1889 | 1899 |
| Cowan Av | King | G. T. Ry. | " | 1890 | 1900 |
| Crawford | Queen | Defoe | " | 1890 | 1900 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-------------------------|-----------------|-------------------|-----------------------|-----------------------|----------------------------------|
| Crocker Av.... | Bellwoods Av.. | Claremont | C. B.... | 1890 | 1900 |
| Cross | Gladstone Av.. | Beaconsfield Av.. | " | 1888 | 1898 |
| Dale | McKenzie Av.. | Glen Rd. Bridge. | " | 1889 | 1899 |
| D'Arcy | McCaul | Spadina Av..... | " | 1895 | 1900 |
| Darling | North terminus | End of sewer.... | " | 1891 | 1896 |
| Davenport Rd. | Avenue Rd.... | West City limit.. | " | 1886 | 1896 |
| Davenport Rd. | Hazelton Av .. | Avenue Rd..... | " | 1889 | 1899 |
| Davenport Pl.. | Davenport Rd. | End of street.... | " | 1888 | 1898 |
| Davies Av | Queen | Matilda | " | 1893 | 1899 |
| Dean | Wilton | 200 feet north... | " | 1886 | 1896 |
| Defoe | Tecumseth | Niagara..... | " | 1890 | 1900 |
| DeGrassi..... | Queen | Gerrard | " | 1892 | 1897 |
| Delaware Av .. | College | Bloor | " | 1886 | 1897 |
| Delaware Av .. | Bloor | VanHorne | " | 1891 | 1897 |
| Dewson..... | Ossington Av.. | Dovercourt Rd .. | " | 1890 | 1900 |
| Dorset | King | Wellington..... | " | 1883 | 1894 |
| Dovercourt Rd. | Dundas | College | " | 1884 | 1894 |
| Dovercourt Rd. | College | Bloor | " | 1889 | 1894 |
| Dovercourt Rd. | Queen | Blair | " | 1890 | 1899 |
| Dowling | Queen | Hawthorne..... | " | Parkdale | 1897 |
| Draper | Front | Wellington Pl .. | " | 1884 | 1894 |
| Dufferin | Queen | G. W. Div. G.T.R | " | 1889 | 1898 |
| Dunbar Rd.... | Elm Av | Hill | " | 1890 | 1900 |
| Duncan (now Wright.) | Macdonnell Av. | Sorauren Av | " | 1891 | 1899 |
| Duncan (now Wright.) | Sorauren Av .. | Roncesvalles Av. | " | Parkdale | 1897 |
| Dundas | Ossington Av.. | Jameson Av | C. B. & Cobble. | 1887 | 1897 |
| Dundas | Sorauren Av .. | Bloor | C. B. & Granite. | 1893 | 1898 |
| Dupont | Bathurst..... | Manning Av | C. B.... | 1892 | 1897 |
| Dupont | Avenue Rd.... | Bedford Rd | " | 1890 | 1897 |
| Earl..... | Sherbourne ... | West terminus .. | Asphalt. | 1893 | 1898 |
| Earnbridge.... | Birch | East terminus .. | C. B.... | 1888 | 1899 |
| Eastern Av.... | Trinity | Water | " | 1889 | 1899 |
| Edmund | Royce | C. P. Ry..... | " | 1893 | 1898 |
| Elm Av..... | Bridge..... | Glen Rd..... | " | 1888 | 1899 |
| Elmsley Pl.... | St. Joseph | North terminus.. | " | 1890 | 1900 |
| Emily | Brock | Maude.. | " | 1888 | 1899 |
| Emily | St. Clarens Av. | Brock | " | 1888 | 1899 |
| Euclid | Bloor | Johnston | " | 1890 | 1898 |
| Euclid | Ulster | Bloor | " | 1888 | 1899 |
| Euclid Pl.... | Euclid Av | East terminus .. | " | 1892 | 1899 |
| Evans Av..... | Clinton | West terminus .. | " | 1893 | 1898 |
| Farley Av | Tecumseth | Niagara | " | 1889 | 1898 |
| Farley Av | Bathurst..... | Tecumseth..... | " | 1889 | 1899 |
| Frankish Av .. | Brock Av | Sheridan..... | " | 1889 | 1899 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|------------------------------|-----------------|------------------|----------------------------|-----------------------|----------------------------------|
| Frederick (now Saunders.) | Sorauren Av .. | Fuller | C. B.... | 1888 | 1898 |
| Frizzel | Carlaw Av | Pape Av..... | " | 1890 | 1900 |
| Front | York | Simcoe | C. B. & Stone Setts. | 1888 | 1899 |
| Fuller | Queen | North limit | C. B.... | Parkdale | 1897 |
| Garden Av.... | Sorauren Av .. | Macdonnell Av.. | " | Parkdale | 1897 |
| Gerrard..... | Broadview Av. | Howland Rd | " | 1888 | 1897 |
| Gildersleeve Av | Sumach | East end | " | 1893 | 1899 |
| Givens | Argyle..... | Halton | " | 1889 | 1899 |
| Gordon Av.... | Dale Av | Elm Av | " | 1890 | 1899 |
| Grafton Av.... | RoncesvallesAv | East end | " | 1891 | 1899 |
| Grant | Queen | North terminus.. | " | 1890 | 1900 |
| Halton | Shaw | Dundas | " | 1892 | 1897 |
| Hamburg Av.. | Bloor | Union | " | 1890 | 1899 |
| Hamilton | Paul | Elliott..... | " | 1890 | 1899 |
| Harbord | Markham | Bathurst..... | C. B. & Gravel. | 1889 | 1899 |
| Harris (now Hamilton.) | Queen | Paul | C. B.... | 1891 | 1896 |
| Harrison..... | Ossington Av.. | Lakeview Av | " | 1889 | 1899 |
| Harvard | RoncesvallesAv | Callendar | " | 1888 | 1898 |
| Hayden | Church | East end..... | " | 1890 | 1897 |
| Hayden | Yonge..... | Church | " | 1890 | 1900 |
| Henderson.... | Clinton | Manning Av | " | 1886 | 1896 |
| Henderson.... | Clinton | Grace | " | 1891 | 1898 |
| Herrick | Bathurst..... | Lippincott | " | 1892 | 1897 |
| Heward Av ... | Queen | Eastern Av..... | " | 1889 | 1899 |
| High Park Av. | RoncesvallesAv | High Park..... | C. B. & Gravel. | 1892 | 1899 |
| Howie..... | Clark | North end | C. B.... | 1889 | 1899 |
| Howland Av .. | Bloor | Wells | " | 1889 | 1899 |
| Howland Av .. | Wells | C. P. Ry..... | " | 1890 | 1900 |
| Howland Rd .. | Gerrard | North terminus.. | " | 1888 | 1898 |
| Huron..... | St. Patrick ... | Cecil | " | 1887 | 1897 |
| Huron..... | Cecil | College | " | 1886 | 1897 |
| Huron..... | Phœbe | Grange Av..... | " | 1893 | 1898 |
| Huron..... | Lowther | Bernard | " | 1890 | 1900 |
| Huron..... | Bernard | Dupont | " | 1890 | 1900 |
| Jameson Av... | Dundas | Shirley | " | 1888 | 1898 |
| Jameson Av... | Dundas | Bloor | " | 1889 | 1899 |
| Jarvis | Queen | Bloor | Asphalt. | 1889 | 1899 |
| John | King | Queen..... | C. B.... | 1890 | 1900 |
| John | King | Front | Macad'm | 1895 | 1899 |
| Jordan | Wellington.... | King | Asphalt. | 1891 | 1899 |
| Kensington Cr. | Park Rd..... | Huxley | C. B.... | 1891 | 1896 |
| King | Simcoe | Strachan Av | " | 1883 | 1894 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|------------------------------------|----------------------------|----------------------------|--------------------|-----------------|----------------------------|
| King | Sherbourne . . . | Don River | C. B. . . . | 1883 | 1894 |
| King | Strachan Av. . . | Armour | " | 1891 | 1896 |
| King | Dufferin | Queen | " | Parkdale | 1897 |
| King | Dufferin | 3,000 ft. easterly. | Tamarac & Scoria | 1890 | 1899 |
| Lane bet'n St. Patrick and D'Arcy. | Huron | Beverley | C. B. . . . | 1892 | 1897 |
| Lane s. of Pearl | Near Simcoe | | Cobble. . . | 1892 | 1897 |
| Lane e. Spadina Av. | Grange Av. | St. Patrick | " | 1892 | 1897 |
| Lane bet. Duke and Duchess. | Ontario | West terminus . . | C. B. . . . | 1886 | 1896 |
| Lane s. of Pearl | Simcoe | York | " | 1892 | 1897 |
| Lane bet. Yonge and Victoria. | Gould | Wilton Av | Cobble. . . | 1887 | 1897 |
| Lane bet. Yonge and Victoria. | Adelaide | 106 feet south . . | " | 1892 | 1897 |
| Lane 1st w. of Bay. | S. of Wellingt'n | | C. B. . . . | 1889 | 1897 |
| Lane bet. York and Simcoe. | N. of Pearl | Near Adelaide . . | " | 1888 | 1898 |
| Lane 1st n. of Queen. | Mutual | Jarvis | " | 1888 | 1898 |
| Lane n. of Wilton Cr. | Pembroke | George | " | 1888 | 1898 |
| Lane bet. Queen and Richmond | Church | East terminus . . | Cobble. . . | 1888 | 1898 |
| Lane s. of Queen | Tecumseth | Niagara | " | 1893 | 1898 |
| Lane rear of John. | Adelaide | Lane near Arlington Hotel. | C. B. . . . | 1893 | 1898 |
| Lane e. of Bay. | Wellington | 214 feet south . . | " | 1888 | 1899 |
| Lane 1st e. of Bay. | Wellington | Melinda | Concrete | 1895 | 1900 |
| Lane n. of Foxley. | Foxley | 135 feet north . . | C. B. . . . | 1889 | 1899 |
| Lane 1st s. of Queen. | Simcoe | Duncan | " | 1889 | 1899 |
| Lennox | Roncesvalles Av | Easterly limit . . | " | Parkdale | 1897 |
| Leopold | Jameson Av. | Lot 19 | " | Parkdale | 1897 |
| Leopold | Dowling Av. | Lot 19 | " | Parkdale | 1897 |
| Lippincott | Nassau | College | " | 1885 | 1896 |
| Lippincott | Ulster | Bloor | " | 1885 | 1896 |
| Lobb Av. | Shaw | Crawford | " | 1890 | 1900 |
| Logan Av. | Queen | Ashbridge's Bay. | " | 1889 | 1898 |
| Logan Av. | Queen | Gerrard | " | 1889 | 1899 |
| Logan Av. | Gerrard | Danforth Av | " | 1889 | 1899 |
| Lombard | Victoria | Jarvis | " | 1888 | 1898 |
| Lowther Av | Bedford Rd. | Term. of Pav't . . | " | 1889 | 1898 |
| Lowther Av | Bedford Rd. | St. George | " | 1890 | 1898 |
| Lowther Av | Brunswick Av. | Howland Av | " | 1892 | 1898 |
| Lowther Av | St. George | Walmer Rd | " | 1890 | 1900 |
| Lucas | Sorauren Av | Roncesvalles Av . . | " | 1892 | 1897 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|------------------|------------------|---------------------|--------------------|-----------------|----------------------------|
| McGee | Queen | Eastern Av. | C. B. | 1885 | 1896 |
| McKenzie Av. . | Dale Av. | Castle Frank | " | 1886 | 1897 |
| McKenzie Cr. . | Dovercourt Rd. | Lisgar | " | 1886 | 1898 |
| McKenzie. | Lisgar | Beaconsfield | " | 1890 | 1900 |
| McMaster. | Avenue Rd. | Rathnally Av. | " | 1890 | 1900 |
| McPherson Av. | Term. of Pave't | Avenue Rd. | " | 1889 | 1898 |
| McPherson Av. | Avenue Rd. | Rathnally Av. | " | 1890 | 1900 |
| Manning Av. . | Arthur | Bloor | " | 1886 | 1897 |
| Manning Av. . | Arthur | Queen | " | 1889 | 1898 |
| Manning Av. . | Bloor | Hammond Pl. | " | 1890 | 1900 |
| Mansfield Av. . | Bellwoods Av. . | Clinton | " | 1884 | 1894 |
| Mansfield Av. . | Manning Av. . | Clinton | " | 1893 | 1898 |
| Mansfield Av. . | Bellwoods Av. . | Grace | " | 1893 | 1899 |
| Maple Grove Av | Carlton | Sackville Pl. | " | 1888 | 1899 |
| Margueretta. . | Dundas | Bloor | " | 1889 | 1898 |
| Marion | Sorauren Av. . | Fuller | " | 1888 | 1898 |
| Marion | Lansdowne Av. | Macdonnell Av. . | " | 1891 | 1899 |
| Markham | Queen | College | " | 1885 | 1896 |
| Markham | Harbord | Bloor | " | 1889 | 1898 |
| Marlborough Av | Yonge | West end | " | 1889 | 1899 |
| Massey | King | Wellington | " | 1887 | 1897 |
| Massey | King | Queen | " | 1891 | 1897 |
| Maude | Adelaide. | Farley. | " | 1887 | 1897 |
| Maude | Emily | Brock | " | 1889 | 1899 |
| Maynard Av. . | King | Leopold | " | Parkdale | 1897 |
| Melinda | Bay | Yonge | Asphalt. . | 1891 | 1899 |
| Mercer | John | Peter | C. B. | 1885 | 1896 |
| Metcalf. | Carlton | Winchester | " | 1885 | 1896 |
| Metcalf. | Winchester . | Amelia | " | 1888 | 1895 |
| Middleton Av. | Sheridan Av. . | Brock | " | 1889 | 1898 |
| Millstone Lane. | York | East end. | " | 1889 | 1899 |
| Mitchell Av. . | Tecumseth | Niagara | " | 1889 | 1899 |
| Morris. | Spadina Av. | Huron | " | 1890 | 1900 |
| Morse | Queen | Ashbridge's Bay. | " | 1886 | 1897 |
| Montague Av. | Queen | Harvard | " | 1889 | 1899 |
| (now Triller.) | | | | | |
| Montague Pl. . | Homewood Av. | West end | " | 1893 | 1898 |
| Munroe | Queen | Gerrard | " | 1887 | 1897 |
| Napier | Munroe | Lane | " | 1891 | 1896 |
| New | Davenport Rd. | West end | " | 1889 | 1899 |
| Niagara. | Bathurst | King | " | 1885 | 1896 |
| Niagara. | King | Queen | " | 1887 | 1897 |
| Noble | Brockton Rd. . | East limit | " | Parkdale | 1897 |
| North Drive. . | Rosedale Rd. . | Woodland Av. | C. B. & Gravel. | Yorkville | 1897 |
| Northcote Av. . | Queen | Afton Av. | C. B. | 1895 | 1900 |
| Northumberl'd. | Ossington Av. . | Preston | " | 1893 | 1898 |
| O'Hara Av. | Present Term. | Railway tracks . | " | 1892 | 1897 |
| Olive | Bathurst. | Palmerston Av. . | " | 1893 | 1898 |
| Ontario Pl. | Ontario | 270 feet west. | " | 1886 | 1896 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-----------------|-------------------|---------------------|--------------------|-----------------|----------------------------|
| Ontario | Carlton | Howard | Asphalt. | 1890 | 1900 |
| Orde | McCaul | Murray | C. B.... | 1889 | 1899 |
| Ossington Av.. | Bloor | C. P. R | " | 1892 | 1897 |
| Ossington Av.. | Harrison..... | Bloor | " | 1888 | 1899 |
| Ossington Pl.. | Ossington Av.. | West end | " | 1889 | 1899 |
| Ottawa | Shaftesbury Av | Summerhill Av.. | " | 1889 | 1899 |
| Oxford | Augusta Av ... | Spadina Av..... | " | 1895 | 1900 |
| Palmerston Av. | College | Arthur | " | 1884 | 1896 |
| Palmerston Av. | Arthur | Robinson | " | 1884 | 1896 |
| Palmerston Av. | Bloor | Union | " | 1890 | 1899 |
| Pape Av..... | Queen | Danforth | " | 1887 | 1897 |
| Park Rd..... | Woodland | Rosedale Rd | Cedar & Gravel. | Yorkville | 1897 |
| Parkview Av.. | Wellesley | North terminus.. | C. B.... | 1889 | 1899 |
| Parliament.... | Wellesley | Howard | " | 1888 | 1895 |
| Parliament.... | Gerrard | Carlton | " | 1888 | 1898 |
| Pearson Av... | Sorauren Av .. | Roncesvalles Av. | " | Parkdale | 1897 |
| Pearson Av.... | Sorauren Av .. | Macdonell Av ... | " | 1888 | 1898 |
| Perth Av | Bloor | Royce Av. | " | 1893 | 1898 |
| Peter..... | Front | King | " | 1886 | 1897 |
| Peter..... | King | Queen | " | 1890 | 1900 |
| Pine Hill Rd.. | Rosedale Rd .. | West end | Macad'm | 1894 | 1899 |
| Piper.. | York | East end..... | C. B.... | 1889 | 1899 |
| Prince Arthur A | Termin. of Pave't | St. George | " | 1890 | 1900 |
| Prospect..... | Rose Av..... | Ontario | " | 1889 | 1899 |
| Queen | Don Bridge .. | Greenwood's line. | " | 1888 | 1898 |
| Rathnally Av.. | Rathnally Cr.. | McPherson Av .. | " | 1890 | 1900 |
| Renfrew Pl ... | McCaul | East end | " | 1889 | 1899 |
| Richmond Pl.. | Richmond | South end | " | 1886 | 1896 |
| River | Gerrard | North end | " | 1887 | 1897 |
| Robinson | Bathurst..... | Euclid Av | " | 1886 | 1896 |
| Roncesvalles .. | Queen | Dundas | " | 1890 | 1900 |
| Rose Av | Howard | Winchester | Asphalt. | 1892 | 1900 |
| Roseberry Av. | Bathurst | End | C. B.... | 1894 | 1899 |
| Rossin House L | York .. | East terminus... | Cobble.. | 1891 | 1897 |
| Rosedale Rd .. | Park Rd..... | North Drive | Cedar & Gravel. | Yorkville | 1897 |
| Rosedale Rd .. | Roxborough Av | North Drive | C. B.... | 1891 | 1897 |
| Roxborough Av | Yonge | 1,328 feet west .. | " | 1892 | 1897 |
| Roxborough Av | Yonge | 2,180 feet easterly | " | 1890 | 1900 |
| Royce Av..... | Symington Av. | C. P. R | " | 1893 | 1898 |
| Rush Lane.... | Esther..... | Portland..... | " | 1890 | 1900 |
| Rusholme Rd . | College | Bloor | " | 1890 | 1900 |
| Russell | Robert | Spadina Av | " | 1889 | 1898 |
| Ruth | Sorauren Av .. | Roncesvalles Av. | " | Parkdale | 1899 |
| Sackville..... | Carlton | Winchester | " | 1889 | 1898 |
| Salisbury Av .. | Sackville..... | East terminus ... | " | 1886 | 1897 |
| Salisbury Av .. | Sackville..... | 190 feet west | " | 1890 | 1899 |
| Saulter | Queen | Eastern Av..... | " | 1889 | 1899 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-----------------------------|-----------------|---------------------|--------------------|-----------------|----------------------------|
| Scott | Front | Colborne..... | Asphalt. | 1890 | 1900 |
| Shannon..... | Ossington Av.. | Dovercourt Rd .. | C. B.... | 1887 | 1897 |
| Shaw | Arthur | College | " | 1888 | 1898 |
| Shaw | College | Bloor..... | " | 1893 | 1898 |
| Shaftesbury Av | Yonge | 1,100 feet easterly | " | 1890 | 1899 |
| Sheppard | Adelaide..... | Richmond | Macad'm | 1895 | 1899 |
| Sherbourne ... | King | Queen | Asphalt. | 1890 | 1899 |
| Sherbourne ... | Queen..... | Bloor | " | 1889 | 1899 |
| Shirley | Brock | Lansdowne Av... | C. B.... | 1891 | 1898 |
| Simcoe | Queen | Caer Howell | " | 1889 | 1899 |
| Simcoe | King | Queen | Asphalt. | 1890 | 1900 |
| Simpson | Broadview Av. | East end..... | C. B.... | 1889 | 1899 |
| Smith | Broadview Av. | Logan Av..... | " | 1890 | 1900 |
| Soho | Queen | Phoebe | " | 1889 | 1899 |
| Sorauren Av .. | Wright | Dundas | " | 1890 | 1899 |
| South Drive... | Crescent Rd .. | Centre Rd | Macad'm | 1894 | 1898 |
| Spadina Av ... | College | Crescent | Cedar & Cobble. | 1889 | 1898 |
| Spadina Av ... | Queen | College | C. B.... | 1884 | 1894 |
| Spadina Av ... | King | Front | " | 1882 | 1892 |
| Spadina Av., e.s | Cecil | Baldwin | " | 1889 | 1899 |
| Spadina Rd ... | Bloor | Bernard Av..... | " | 1889 | 1899 |
| Spencer Av ... | Huxley | Mississauga | " | 1890 | 1900 |
| Springhurst Av | King | Jameson Av..... | " | Parkdale | 1897 |
| Stafford | King | Defoe | " | | 1886 |
| Stafford | Defoe | Clinton | " | 1887 | 1897 |
| Stafford | King | Wellington | " | 1890 | 1900 |
| Stewart | Portland..... | Bathurst..... | " | 1884 | 1894 |
| St. Clarens Av. | Emily | Dundas | " | 1889 | 1898 |
| St. Clarens Av. | Dundas | Bloor..... | " | 1890 | 1900 |
| St. George ... | Bloor | Bernard Av..... | Asphalt. | 1889 | 1899 |
| St. George ... | Bernard | Dupont | " | 1890 | 1899 |
| St. James Av.. | Ontario | Parliament ... | " | 1890 | 1899 |
| St. Joseph | St. Vincent ... | Queen's Park.... | C. B.... | 1883 | 1894 |
| St. Mary | Yonge | North | " | 1888 | 1898 |
| St. Mary | North | Queen's Park.... | " | 1883 | 1894 |
| Sullivan | Beverley..... | Spadina Av | " | 1895 | 1900 |
| Sully | Term. of Pave't | College | " | 1891 | 1898 |
| Sully | Arthur | 1,465 feet north.. | " | 1889 | 1899 |
| Sumach | King | Eastern Av | " | 1890 | 1899 |
| Sumach | King | Gerrard | " | 1888 | 1898 |
| Sussex Av | Robert | Spadina Av | " | 1887 | 1897 |
| Sydenham (now Poullett St.) | Sydenham ... | South terminus.. | " | 1890 | 1896 |
| Tecumseth | Front | Queen | " | 1889 | 1898 |
| Thompson | Davies Av | Munroe | " | 1890 | 1900 |
| Toronto | North of King. | Adelaide..... | Asphalt. | 1891 | 1897 |
| Tranby Av.... | Bedford Rd . | 157½ feet east.... | C. B.... | 1891 | 1896 |
| Tranby Av.... | Avenue Rd.... | West end | " | 1889 | 1899 |
| Trinity | King | South terminus.. | " | 1884 | 1895 |
| Turner | Tecumseth | West end | " | 1886 | 1896 |

| Street. | From | To | Existing Pavement. | Date When Laid. | Date Final Assessm't Paid. |
|-----------------|-----------------|--------------------|--------------------|-----------------|----------------------------|
| Ulster | Bathurst..... | Major | C. B.... | 1889 | 1898 |
| Vanauley | Queen | High | " | 1886 | 1897 |
| Vanauley | St. Patrick.... | St. Andrews | " | 1887 | 1897 |
| Victor Cr | Dowling Av .. | Jameson Av..... | " | Parkdale | 1897 |
| Victor Cr | Dunn Av..... | Jameson Av..... | " | 1893 | 1898 |
| Victoria La.... | Queen | Shuter..... | Cobble.. | 1890 | 1899 |
| Victoria | King | Adelaide..... | Asphalt. | 1892 | 1900 |
| Virtue... .. | Sorauren Av .. | East terminus... | C. B.... | 1890 | 1900 |
| Vermont..... | Bathurst..... | Manning Av | " | 1891 | 1896 |
| Walmer Rd.... | Castle Av | Bernard Av | " | 1891 | 1897 |
| Walmer Rd.... | Bernard Av.... | Dupont..... | " | 1892 | 1899 |
| Walter | Davenport Rd. | McMurrich | " | 1891 | 1897 |
| Walker Av.... | Yonge | West limit | " | 1888 | 1899 |
| Wardell | DeGrassi..... | North terminus.. | " | 1889 | 1898 |
| Wascana | Sumach | 186 feet easterly. | " | 1891 | 1896 |
| Waterloo | Gladstone Av.. | Dufferin | " | 1886 | 1896 |
| Wellesley | Sumach | 300 feet east | " | 1889 | 1899 |
| Wellington.... | Peter | Clarence Sq..... | " | 1886 | 1896 |
| Wellington.... | Church | Yonge | Asphalt. | 1889 | 1899 |
| Wellington.... | Bay | York | " | 1891 | 1899 |
| West Lodge Av | Queen | Convent property | C. B.... | 1888 | 1898 |
| Westmorel'd Av | Durham | Union | " | 1890 | 1900 |
| Westmorel'd Av | Bloor | Durham | " | 1890 | 1900 |
| Wilkins Av ... | King | North terminus.. | " | 1888 | 1899 |
| Wilson | Queen | King | " | Parkdale | 1897 |
| William | Queen | Caer Howell | " | 1887 | 1897 |
| Withrow Av .. | Broadview Av. | 1,060 feet east... | " | 1889 | 1898 |
| Woodland | North Drive... | Park Rd | Cedar & Gravel. | Yorkville | 1897 |
| Woolfrey | Broadview Av. | Bowden | C. B.... | 1888 | 1899 |
| Woolsley | Esther..... | Bathurst..... | " | 1883 | 1892 |
| Wyatt Av | Sumach | River..... | " | 1889 | 1898 |
| Yonge | Davenport Rd. | Railway crossing. | " | 1885 | 1897 |
| York | Queen | King | " | 1884 | 1895 |

TABLE No. 7.
ASPHALT.

| Street. | From | To | Pavement. | Curb. | Class of Curb. | Width. | Length. | Completed. | Contractor. |
|-------------------|------------------|---------------|--------------|--------------|----------------|----------|----------|-----------------|-----------------------------|
| Classic Av. | Stadina Av. | Harmon. | 4 in. stone. | 4 in. stone. | 4 in. stone. | 24 | 1,130 | June 7, 1899. | Constructing and Paving Co. |
| Station | Stadina | Yerk. | 3,326 | 1,130 | 4 in. stone. | 24 | 640 | July 5, 1899. | Constructing and Paving Co. |
| Queen | Bedford | Nagaw. | 5,356 | 1,130 | 4 in. stone. | 28 | 1,224 | June 7, 1899. | Warren-Scharf Asphalt Co. |
| Queen | Yonge | John A. W. | 10,665 | 1,875 | 4 in. stone. | 24 | 3,104 | July 3, 1899. | Constructing and Paving Co. |
| Carlton | Shelburne | Parliament. | 4,270 | 2,800 | 4 in. stone. | 24 | 1,187 | July 3, 1899. | Warren-Scharf Asphalt Co. |
| Front | Scott | East terminus | 817 | 476 | 6 in. stone. | 19 | 379 | Aug. 2, 1899. | Constructing and Paving Co. |
| Markham | Bay | York | 4,312 | reest. | 6 in. stone. | 40 | 917 | Aug. 1, 1899. | " |
| Markham | College | Harbord | 5,286 | 4,046 | 4 in. stone. | 24 | 1,302 | Sept. 2, 1899. | " |
| Close | King | Queen | 2,675 | 2,487 | 4 in. stone. | 24 | 1,201 | Sept. 18, 1899. | Warren-Scharf Asphalt Co. |
| Marwick Av. | Laundowne | to Harb. | 1,925 | 1,396 | 4 in. stone. | 20 | 621 | Oct. 4, 1899. | Framm Bauwerk Paving Co. |
| Prince Arthur Av. | College Rd. | Harb. | 2,376 | 1,808 | 4 in. stone. | 24 | 779 | Sept. 29, 1899. | " |
| Major | College Rd. | Harb. | 9,200 | 7,045 | 4 in. stone. | 24 | 3,324 | Sept. 31, 1899. | " |
| Chancellor | Queen | Bridge | 3,814 | 3,298 | 4 in. stone. | 21 | 1,573 | Sept. 31, 1899. | Constructing and Paving Co. |
| Chancellor | Dovercourt Rd. | 715 feet east | 1,705 | 1,070 | 4 in. stone. | 20 | 715 | Sept. 21, 1899. | " |
| Chancellor | Yong College Cr. | 715 feet east | 8,524 | 5,376 | 6 in. stone. | 26 | 2,345 | Oct. 24, 1899. | Warren-Scharf Asphalt Co. |
| Albion | Dundas | Churchill | 2,534 | 8,023 | 4 in. stone. | 21 | 837 | Nov. 1, 1899. | Constructing and Paving Co. |
| Lakeriew Av. | Spence | Carlton | 911 | 1,026 | 4 in. stone. | 18 | 411 | Oct. 21, 1899. | " |
| Gifford | Bloor | Dupont | 8,261 | 6,258 | 4 in. stone. | 24 | 3,041 | Dec. 6, 1899. | " |
| Madison Av. | Bay | Harbord | 3,064 | 2,836 | 4 in. stone. | 18 | 1,468 | Oct. 15, 1899. | " |
| Albion Rd. | Lakeriew Av. | Harbord | 1,914 | 379 stone | 6 in. stone. | 21 | 1,151 | Nov. 11, 1899. | Warren-Scharf Asphalt Co. |
| James | Queen | Albert. | 600 | 279 | 6 in. stone. | 30 & 34 | 295 | June 7, 1899. | " |
| Front | Jarvis | George | 2,270 | reest. | 6 in. stone. | 28 | 3,091 | Not completed. | Constructing and Paving Co. |
| Bloor | Avenue Rd. | Walton Rd. | 97,000 | reest. | 6 in. stone. | 28 | 3,091 | Not completed. | Warren-Scharf Asphalt Co. |
| Total | | | 97,000 | | | Total... | 34,794.1 | | |

BRICK OR CONCRETE.

| | | | | | | | | | |
|--------------|--------------|---------------------|--------|-------|-------------|----------|---------|----------------|-------------------------------|
| Borden | College | Uster | 3,572 | 2,600 | 4 in. stone | 24 | 1,258 | June 17, 1899 | John McKnight |
| Brinkfield | Queen | Humber | 1,819 | 1,445 | 4 in. stone | 24 | 604 | June 30, 1899 | John F. Connolly |
| Brinkfield | Parliament | Point 110 feet east | 147 | 219 | 4 in. stone | 16 | 119 | Aug. 26, 1899 | City of Toronto |
| Orford Ave. | Parliament | Point 110 feet west | 147 | 219 | 4 in. stone | 16 | 119 | Aug. 26, 1899 | City of Toronto |
| Gardier Ave. | Rougeswelles | Southern | 3,011 | 2,750 | 4 in. stone | 20 | 1,355 | Aug. 4, 1899 | John McKnight |
| Pearl | York | Simcoe | 1,734 | 1,330 | 4 in. stone | 24 | 634 | Nov. 29, 1899 | Don, Pav'g and Contract'g Co. |
| Belton Ave. | King | 235 feet north | 1,507 | 1,507 | 4 in. stone | 24 | 539 | Sept. 27, 1899 | John F. Connolly |
| Belton Pl. | Belton Ave. | Dundas | 1,774 | 1,509 | 4 in. stone | 21 | 713 | Nov. 28, 1899 | John F. Connolly |
| Grove Av. | Foxley | Dundas | 3,496 | 2,620 | 4 in. stone | 24 | 1,129 | Nov. 30, 1899 | Don, Pav'g and Contract'g Co. |
| St. Patrick | Spadina | Dundas | 964 | 810 | 4 in. stone | 24 | 344 | Aug. 24, 1899 | City of Toronto |
| Huron | Grange Ave | St. Patrick | 18,738 | | 4 in. stone | 24 | | | |
| | Total | | 18,738 | | | Total... | 7,181.6 | | |

BRICK OR GRAVEL.

| | | | | | | | | | |
|-------------|--------|----------------|-------|-------|--------------|----------|---------|----------------|-------------------------------|
| Cameron | Queen | Cameron Pl. | 2,000 | 1,798 | 4 in. stone. | 21 | 821 | May 6, 1899. | Constructing and Paving Co. |
| Crawford | Arthur | North terminus | 4,158 | 3,198 | 4 in. stone. | 24 | 1,443 | June 28, 1899. | Don, Pav'g and Contract'g Co. |
| Cameron Pl. | Queen | Vanderly | 7,025 | 450 | 4 in. wood. | 21 | 1,130 | Oct. 17, 1899. | W. F. Grant & Co. |
| Sussex | Queen | Wright | 5,228 | 5,331 | 4 in. wood. | 24 | 1,481 | July 3, 1899. | " |
| Total | | | 1,800 | | | Total... | 4,974.6 | | |

BRICK OR BROKEN STONE.

| | | | | | | | | | |
|------------|-------------|------------------------|-------|-------|--------------|----------|---------|-----------------|-------------------------------|
| Ode | Murray | University | 642 | 810 | 4 in. wood. | 21 | 275 | Aug. 3, 1899. | City of Toronto. |
| Leppington | College | Uster | 3,334 | 2,690 | 4 in. stone. | 24 | 1,130 | Sept. 16, 1899. | Don, Pav'g and Contract'g Co. |
| Dundas | River | 160 ft. s. of Hepburne | 2,846 | 2,132 | 4 in. wood. | 24 | 1,130 | Oct. 17, 1899. | W. F. Grant & Co. |
| Dundas | Augusta Ave | Beltrove Ave | 600 | 618 | 4 in. wood. | 18 | 298 | Oct. 6, 1899. | H. McKnight. |
| Total | | | 7,622 | | | Total... | 2,883.6 | | |

GRAVEL.

| | | | | | | | | | |
|-----------|-----------|-------------|-----|-----|-------------|----|-----|---------------|------------------|
| Collabate | Gladstone | Bowenfield. | 863 | 740 | 4 in. wood. | 21 | 366 | May 31, 1899. | City of Toronto. |
|-----------|-----------|-------------|-----|-----|-------------|----|-----|---------------|------------------|

MACADAM.

| | | | | | | | | | |
|-----------------|-------------|----------------------|--------|-------|--------------|----------|----------|-----------------|-------------------------------|
| Elgin Ave. | Bedford Rd. | Avenue Rd. | 2,099 | 1,598 | 4 in. stone. | 24 | 797 | Aug. 3, 1899. | H. McKnight. |
| South Drive. | Glenn Rd. | South Drive terminus | 1,641 | 1,337 | 4 in. stone. | 24 | 613 | Aug. 3, 1899. | John F. Connolly. |
| Wellesley | Bedford | Sumach | 4,367 | 3,434 | 4 in. stone. | 24 | 1,533 | Aug. 12, 1899. | Don, Pav'g and Contract'g Co. |
| First Ave. | Broadview | Lucan | 5,066 | 6,268 | 4 in. stone. | 21 | 1,994 | Sept. 5, 1899. | John F. Connolly. |
| Parliament | Queen | Gerrard | 7,631 | 5,080 | 4 in. wood. | 26 | 2,586 | July 15, 1899. | Don, Pav'g and Contract'g Co. |
| Washington Ave. | Spadina | Wellesley | 1,243 | 4,954 | 4 in. wood. | 24 | 2,406 | Aug. 10, 1899. | H. McKnight. |
| Division | Spadina | Huron | 1,077 | 882 | 4 in. stone. | 24 | 403 | Aug. 10, 1899. | H. McKnight. |
| Spence | Spadina | River | 1,193 | 1,242 | 4 in. wood. | 18 | 536 | June 26, 1899. | Constructing and Paving Co. |
| Elgin | Yonge | University | 6,938 | 4,048 | 4 in. wood. | 30 | 1,905 | Aug. 1, 1899. | City of Toronto. |
| Front | Trinity | Shelburne | 2,400 | 3,957 | 4 in. wood. | 25 | 2,074 | Sept. 3, 1899. | H. McKnight. |
| Sword | Gerrard | Spence | 985 | 866 | 4 in. wood. | 21 | 414 | Oct. 11, 1899. | City of Toronto. |
| Dufferin | Dundas | Laurel | 4,116 | 3,108 | 4 in. wood. | 24 | 1,434 | Dec. 5, 1899. | E. J. Hartnett. |
| Sackville Rd. | Wellesley | Wellesley and | 7,070 | 1,576 | 4 in. stone. | 24 | 734 | Sept. 18, 1899. | Don, Pav'g and Contract'g Co. |
| Pembroke | Sturges | Wilson Ave | 2,044 | 1,809 | 4 in. wood. | 20 | 795 | Oct. 2, 1899. | " |
| Sackville | Wellesley | 254 feet north | 732 | 570 | 4 in. stone. | 24 | 596 | Oct. 26, 1899. | H. McKnight. |
| Gerrard | Yonge | Surrey Pl. | 4,336 | 2,736 | 4 in. stone. | 29 | 1,275 | Dec. 15, 1899. | City of Toronto. |
| Yonge | Broadview | Logan | 5,443 | 4,100 | 4 in. wood. | 24 | 1,004 | Sept. 6, 1899. | Don, Pav'g and Contract'g Co. |
| Gerrard | Yonge | Jarvis | 5,925 | 2,935 | 4 in. wood. | 33 | 1,576 | Sept. 26, 1899. | City of Toronto. |
| Total | | | 81,803 | | | Total... | 25,139.2 | | |

CEMENT BLOCK RELAY ON GRAVEL.

| | | | | | | | | | |
|------------------|-------------|----------------------|--------|-------|--------------|----------|--------|--------------------|-------------------------------|
| Patric Ave. | Arthur | Robinson | 3,722 | 2,736 | 4 in. stone. | 24 | 1,219 | 4, 1899. | Don, Pav'g and Contract'g Co. |
| Queen | College | College | 1,700 | 1,264 | 4 in. wood. | 24 | 270 | May 20, 1899. | " |
| Maple Grove Ave. | Brick Ave | Gladstone Ave | 1,034 | 947 | 4 in. wood. | 21 | 431 | May 27, 1899. | " |
| Russell | St. George | Spadina Ave | 1,737 | 1,349 | 4 in. stone. | 24 | 623 | July 27, 1899. | " |
| Sussex | Appanett | Barth | 2,715 | 790 | 4 in. wood. | 21 | 293 | July 6, 1899. | " |
| St. George | Bay | York | 3,081 | 1,754 | 4 in. wood. | 22 | 843 | July 27, 1899. | " |
| Oxford | Augusta Ave | Lippincott | 2,443 | 1,836 | 4 in. wood. | 24 | 843 | Not completed. | " |
| Betty | King | Queen | 3,186 | 2,449 | 4 in. wood. | 24 | 1,181 | 6 Sept. 6, 1899. | " |
| Robt | Dundas | Grove Av | 1,362 | 1,259 | 4 in. wood. | 24 | 562 | 6 Sept. 11, 1899. | " |
| West Lodge Ave. | St. Patrick | 145 ft. 10 in. north | 3,195 | 416 | 4 in. wood. | 24 | 1,145 | 10 Sept. 23, 1899. | " |
| Cadyle | St. Patrick | 775 ft. north | 1,935 | 855 | 4 in. wood. | 20 | 376 | Dec. 6, 1899. | " |
| Pembroke | Dufferin | Brick Ave | 2,700 | 2,047 | 4 in. wood. | 24 | 1,011 | Dec. 6, 1899. | " |
| Spadina Pl. | Queen | Brick Ave | 316 | 316 | 4 in. wood. | 28 | 1,011 | Dec. 15, 1899. | City of Toronto. |
| Spadina Cr. | Sully | Shaw | 1,333 | 1,174 | 4 in. wood. | 24 | 759 | Oct. 12, 1899. | Don, Pav'g and Contract'g Co. |
| Total | | | 52,005 | | | Total... | 16,572 | | |

CEMENT BLOCK RELAY ON CONCRETE.

| | | | |
|---------------------|--------|---------------|--------|
| Queen | 4,740 | 4-in. wool .. | 25 |
| Spaulding Ave | 1,353 | 4-in. wool .. | 48 |
| Sully Cr. | 52,065 | Total | 10,572 |
| Sully Cr. | 52,065 | | |

CEDAR BLOCK RELAIN ON CONCRETE.

| | | | | | | | |
|-----------|-------------|----------------|-------------|------------|----------|--------------|------------------------------|
| Bay | Front | Explains | 2,000 | None | 42 | Nov. 3, 1894 | Dom. Pav'g and Contractg Co. |
|-----------|-------------|----------------|-------------|------------|----------|--------------|------------------------------|

TAMARAC BLOCK ON CONCRETE.

| | Fruit | Explands | None | 55 | 351 | May 15, 1897 Dom. Pay'g and Contract'g Co. |
|------------|-------------|----------------|------------|-------|-----|--|
| Satt | | | 1,484 | 2,068 | | |

RECONSTRUCTION OF TRACK ALLOWANCE WITH BRICK AND SCORIA.

| | | | | | | | |
|-------|--------------|-----------------|--------|-------|----|--------|--|
| King | Shurborne | Since | 8 182 | 16 | 6 | 4 463 | July 25, 1899, City of Toronto. |
| Yonge | Neumark | Gladstone | 0-640 | 12 | 10 | 4 638 | May 3, 1899, Don. Pay'g and Contract'g Co. |
| Yonge | Gravelle | Bloor | 3,170 | 9 | 4 | 3,037 | May 30, 1899, W. F. Grant & Co. |
| King | Shurborne | River | 5,487 | 12 | 10 | 3,828 | June 26, 1899, Don. Pay'g and Contract'g Co. |
| Yonge | Davenport Rd | C. F. R. tracks | 5,970 | 12 | 10 | 5,042 | July 13, 1899, J. H. Macknight. |
| Total | | | 26,819 | Total | | 19,018 | |

CONCRETE SIDEWALKS.

[illegible]

BRICK SHOWALKS.

| | Young | Victoria | South | Nov | | April 22, 1890 | Contracting and Paving Co. |
|------------------|---------------------------|------------------------|-------|-----|----|----------------|-------------------------------|
| Richmond College | Thurn | Stadium Ave | North | " | 12 | 5 | |
| Bay | Front | " | East | " | 6 | 31 | Aug. 31, 1890 J. H. McKnight. |
| Wellington | Explanade | " | South | " | 12 | 3 | |
| Resident Rd | 98 Ft. 10 m. east of York | 164 Ft. 4 m. w. of Bay | " | " | 36 | 4 | Not completed |
| St. Patrick | Goeller | Rosendale Rd | North | " | 49 | 1 | " |
| | | 1st lawn road | South | " | 12 | 4 | " |
| | | | | " | 6 | 18 | " Private |

BROKEN STONE ROADWAYS.

Over five miles of macadam roadways were constructed during the past year, which is nearly as much as the total for the nine preceding years, as may be seen by reference to Table No. 2.

This large increase in macadam roadways has caused a corresponding scarcity in stone, also increasing its price. Formerly all the stone required for this purpose, could be purchased from the owners of the small schooners, who gather stone from the lake, but this year a great deal of field granite was brought in by rail, which requires more handling than the lake stone, and is generally inferior to it in quality. Tables 7 and 8 show the streets paved with macadam.

CEMENT, CONCRETE, AND BRICK SIDEWALKS.

The construction of sidewalks of a permanent character has greatly increased, 5.47 miles of concrete, and 0.29 miles of brick having been laid this year. There are two reasons for this sudden increase, which may be noticed by referring to Table No. 2:

First: The City Council, upon the recommendation of the City Engineer, has prohibited the laying of wooden sidewalks on a large area in the better part of the City, and, as the existing wooden sidewalks in this locality wear out, they are replaced by either concrete or brick walks.

Second: Concrete and brick walks are now so cheap, that by extending the payments over a period of ten years, the annual cost to the ratepayers is no more than for a wooden walk on which the payments extend over three years. See Table No. 7 for details of the permanent sidewalks laid during the year.

DAY LABOR WORKS.

The City Engineer is required to tender on all works, and when his tender is the lowest, the work is ordered to be done by day labor, under the supervision of the Department.

Twenty-six pavement works were ordered to be done in this way, twenty of which have been completed and six carried over to be completed in 1900.

Table No. 9 is a list of the day labor works which have been completed, and shows the amount of the City's tender, the next lowest tender, and the actual cost of the work. It will be noticed by refer-

ring to the above mentioned table, that the cost of the cement concrete walks have exceeded the amounts of the tenders, but our tenders were far less than the walks could be laid, as it was necessary for some of them to be laid by day labor, in order to expedite the work, there being so few contractors, and so many walks that the contractors could not possibly complete what they had on hand, before the winter season set in. Even as it was they were obliged to carry several of their contracts over to the next year without starting their construction.

The Scoria Block pavement on the King Street track allowance, between Sherbourne Street and Simcoe Street, which is nearly a mile long, was completed within seven weeks of the commencement, and caused very little inconvenience to the public, as the street was kept open for travel during the whole time; the asphalt pavement on each side of the tracks being cleaned up as the work proceeded.

This section of King Street, being the busiest in the City, the paving was carried on both by night and day. The original asphalt pavement was replaced with scoria blocks $3\frac{1}{2}$ in. x 4 in. x 8 in. in size. On a portion of it only the $2\frac{1}{2}$ inch asphalt surface was removed and a surface of concrete substituted. This concrete was composed of one part of the best Portland cement to two parts of crushed granite, not exceeding $\frac{3}{4}$ inch in largest dimensions, a row of scoria blocks being placed as stretchers next to each side of each rail.

It was thought at the time by many who had had experience in paving work, that this surface, which was placed on the the old ten inch concrete foundation, would not stand; but would crack and go to pieces on account of the vibration of the rails. So far this has not proved true, for the pavement has been down eight months and appears to be as sound as ever.

Table No. 7 shows in detail all the pavements, roadways and permanent sidewalks constructed during the year.

Yours faithfully,

W. A. CLEMENT,

Assistant Engineer in charge of Pavements, Roadways, Etc.

TABLE No. 8.

| Class of Pavement. | Total sq. yds. in City. | Total miles in City. | Square yards laid in 1899. | Miles laid in 1899. | Year first laid. | Maximum grade of pavement. | Guaranteed period years. | Maximum cost per sq. yd., 1899. | Minimum cost per sq. yd., 1899. | Average cost per sq. yd., 1899. |
|---------------------------|----------------------------|-------------------------|-------------------------------|------------------------|------------------|----------------------------------|-----------------------------|---------------------------------------|---------------------------------------|--|
| Asphalt..... | 493,411 | 24.326 | 97,909 | 6.215 | 1888 | 3.03 in 100 | 10 { | \$2 75 (heavy) 2 15 (light) | \$2 65 (heavy) 1 66 (light) | \$2 70 2 10 |
| Brick on concrete..... | 122,190 | 6.063 | 18,798 | 3.670 | 1893 | 4.80 in 100 | 5 | 1 70 | 1 60 | 1 65 |
| Brick on broken stone.. | 7,622 | .546 | 7,622 | .546 | 1899 | 4.80 in 100 | 5 | 1 45 | 1 34 | 1 39 |
| Brick on gravel..... | 31,403 | 2.161 | 13,900 | .943 | 1896 | 4.80 in 100 | 5 | 1 30 | 1 10 | 1 15 |
| Cedar block..... | 1,775,776 | 96.104 | 56,123 | 3.297 | 1881 | 7.18 in 100 | 1 | 49 | 43 | 47 |
| Gravel..... | 71,514 | 5.031 | 863 | .069 | 1880 | 3.60 in 100 | 1 | 52 | 52 | 52 |
| *Scoria and granite | 40,122 | .065 | 11,982 | 1.367 | 1884 | 5.16 in 100 | 1 | 2 55 | 2 55 | 2 55 |
| Macadam | 629,192 | 46.000 | 81,803 | 5.013 | ..... | 6.65 in 100 | 1 | 1 47 | 64 | D'pth of stone varies from 8 to 16 inches. |

* Street Railway track allowance not included in total mileage.

TABLE No. 9.

PAVEMENTS AND CEMENT CONCRETE SIDEWALKS CONSTRUCTED BY DAY LABOR, 1899.

| Street. | From | To | Class of Work. | City Tender. | Next low'st Tender. | Actual Cost of Work. |
|--------------------------------|-----------------------|------------------------|---------------------|----------------------|----------------------|----------------------|
| | | | | \$ c. | \$ c. | \$ c. |
| <i>Pavements and Roadways:</i> | | | | | | |
| Orford Avenue..... | Parliament..... | 243 feet east | Brick on concrete.. | 1,096 00 | 1,200 00 | 1,613 15 |
| Orford Avenue..... | Clara | 119 feet west | " " | 383 00 | 405 00 | 2,574 53 |
| Bellevue Place | Bellevue Avenue | Carlyle | " " | 2,789 00 | 2,800 00 | 4,085 74 |
| Grove Avenue..... | Foxley | Dundas | " " | 3,820 00 | 3,870 00 | 2,123 31 |
| Huron | Grange Avenue | St. Patrick..... | " " | 2,088 00 | 2,179 00 | 734 76 |
| Cameron Place..... | Cameron | Vanauley | gravel | 737 00 | No tenders | 8,796 72 |
| Sorauren Avenue..... | Queen | Wright | " " | 10,123 00 | 9,018 00 | 920 49 |
| Orde | Murray | University | " br'k'n st'ne | 1,020 00 | 1,055 00 | 555 19 |
| Collahie | Gladstone Avenue..... | Beaconsfield Avenue.. | Gravel..... | 530 00 | 565 00 | 2,482 18 |
| Elm | Yonge | University | Macadam | 2,636 00 | 2,773 00 | 839 68 |
| Sword..... | Gerrard | Spruce | " | 850 00 | 949 00 | 8,568 16 |
| Grenville | Yonge | Surrey Place | " | 6,900 00 | 7,169 00 | 2,628 14 |
| Gerrard | Yonge | Jarvis | " | 3,356 00 | 3,150 00 | 316 18 |
| *Broadway Place..... | Spadina Avenue | 159 feet 3 inches west | Cedar blocks | 299 00 | 199 00 | per lin. ft. |
| King | Sherbourne | Simcoe | Scoria | per lin. ft. 5 70 | per lin. ft. 5 95 | 5 22 |
| <i>Cement Concrete Walks:</i> | | | | | | |
| Huron, e. s..... | Bloor..... | Prince Arthur Ave.... | Concrete walk..... | 90 | 94 | 94 |
| Bleeker, e. s..... | Wellesley | Howard | " | 60 | 64 | 74 |
| Classic Ave., b. s..... | Huron.. | Spadina Avenue | " | 46 | 47 | 49 |
| Carlton, n. s..... | Bleeker..... | Ontario..... | " | No tenders | No tenders | 74 |
| Walmer Road, w. s..... | Bloor..... | Lowther Avenue..... | " | 66 | 69 | 74 |

* Contractor having made an error of \$100 in his tender, refused to go on with the work and forfeited his deposit.

SEWERS AND DRAINS.

CITY ENGINEER'S DEPARTMENT,

Toronto, December 30th, 1899.

C. H. RUST, Esq.,

City Engineer.

DEAR SIR,—I beg to submit the following report of the work performed by this Department during the year ending 31st of December, 1899.

During the year the following sewers were constructed :

| | |
|---|-------------|
| 12-in. tile pipe..... | 4,491 feet. |
| 12-in. tile pipe in 3 inches of concrete | 240 “ |
| 15-in. tile pipe in 3 inches of concrete | 1,100 “ |
| 12-in. tile pipe (re-laid): | 400 “ |
| 15-in. tile pipe (re-laid) | 500 “ |
| 18-in. tile pipe (re-laid) | 28 “ |
| 2-ft. x 3-ft. brick | 195 “ |
| Total..... | 6,954 “ |

There are $231\frac{1}{3}$ miles of sewers in the City.

During the year there were

74 new manholes built.

111 manholes repaired.

619 gullies built.

366 gullies repaired.

86 miles of sewers flushed and cleaned, at a cost of \$34 per mile.

The following is a list of the plans made during the year :

8 contract plans.

10 day labor plans.

19 working plans.

75 miscellaneous plans.

There are at present 65 flush tanks in the City, which are inspected every week. All are in good working order.

QUEEN STREET CULVERTS.

During the year a 4-ft. brick, arch culvert has been built to take the place of three 18-in. pipes across Queen Street, at Pape Avenue, which were found crushed.

Also a 4-ft. brick, arch culvert has been built to take the place of the timber culvert across Queen Street, at Howard Avenue, which was found badly sunken and decayed.

ASYLUM SEWER CONNECTION.

A connection has been made between the 2-ft. x 3-ft. brick Asylum sewer and the King Street sewer at the corner of King and Shaw Streets, at the expense of the Provincial Government.

MUTUAL STREET SEWER.

This sewer has been built 48 years, is in bad condition and failed just above Wilton Avenue, this spring, flooding several cellars and necessitating 40 feet being taken up and re-laid.

The following is a statement of the private drains constructed during the year, to December 31st inclusive :

| Month. | 6-in. ft. | 9-in. ft. |
|----------------|--------------|--------------|
| January..... | 553 | .... |
| February | 345 | .... |
| March | 969 | 129 |
| April | 1,813 | 66 |
| May | 2,085 | 66 |
| June | 1,514 | 28 |
| July | 1,521 | 28 |
| August..... | 1,311 | .... |
| September . | 2,770 | 304 |
| October... .. | 1,918 | 221 |
| November..... | 1,685 | 210 |
| December | 638 | 183 |
| Total..... | 17,122 | 1,235 |

In addition to the above, 61 drains were repaired. The attached schedules and diagrams give all the information relative to cement tests made in this Department during the year.

All the Special Engineering work, exclusive of Roadway work, was performed by the staff of this Department.

SPECIAL WORK.

TEMPORARY BRIDGES OVER THE DON RIVER.

In connection with the construction of the new bridges over the Don River at Queen Street and Eastern Avenue, two temporary pile trestle bridges were constructed. The piling was driven by contract,

CONDENSED TABLE OF CEMENT TESTS

—1899—

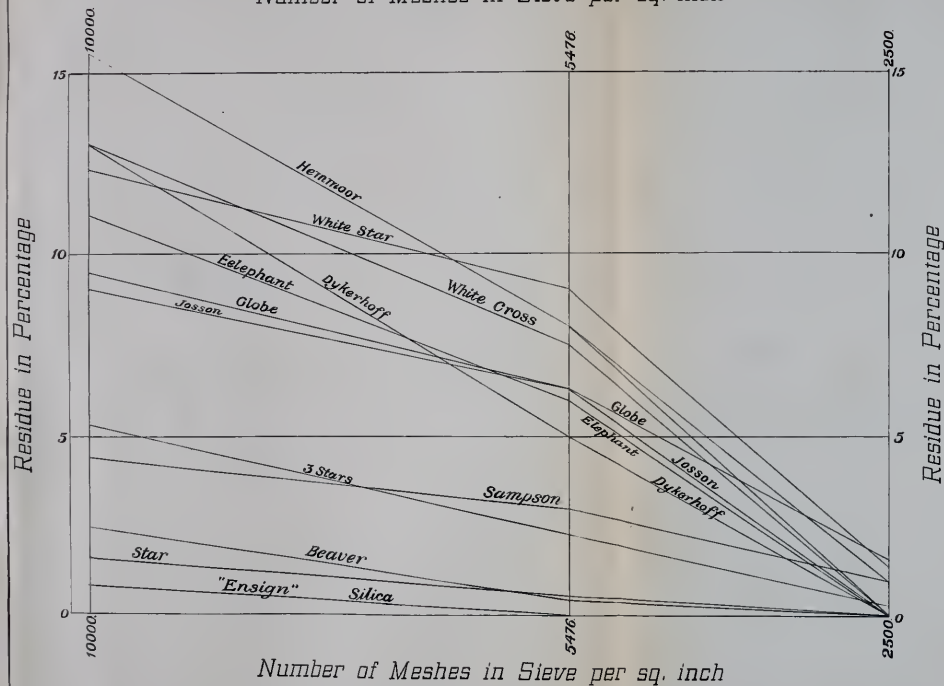
| BRAND OF CEMENT | NO. OF SAMPLES TESTED | AVERAGE SPECIFIC GRAVITY | RESULT OF BLOWING TEST | RESIDUES %. SIEVES MESHES PER INCH | | | TENSILE STRENGTH NEAT | | | | TENSILE STRENGTH 3 TO 1 | | | | | |
|--------------------------|-----------------------|--------------------------|------------------------|--|-----|------|-----------------------|-------|--------|--------|-------------------------|--------|-------|--------|--------|--------|
| | | | | 50 | 74 | 100 | 1 week | 1 mo. | 2 mos. | 3 mos. | 6 mos. | 1 week | 1 mo. | 2 mos. | 3 mos. | 6 mos. |
| White Star...[Belgian].. | 3 | 3.04 | Good | 1.3 | 9.0 | 12.3 | 231 | 311 | 359 | 385 | ... | 85 | 152 | 176 | 232 | ... |
| Globe | 1 | 2.94 | Good | 1.5 | 6.2 | 9.4 | 257 | 349 | 415 | 429 | 421 | 115 | 163 | 194 | 231 | 256 |
| Josson | 1 | 3.08 | Good | .0 | 6.2 | 9.0 | 386 | 452 | 506 | 520 | 536 | 91 | 133 | 202 | 215 | ... |
| Dykerhoff | 1 | 3.16 | Good | .0 | 5.0 | 13.0 | 439 | 495 | 416 | 515 | 660 | 132 | 178 | 215 | 198 | ... |
| Elephant | 1 | 3.00 | Good | .0 | 6.0 | 11.0 | 306 | 320 | 422 | 381 | ... | 89 | 190 | 215 | 246 | ... |
| Hemmoor | 1 | 3.08 | Good | .0 | 8.0 | 15.5 | 529 | 474 | 500 | 551 | 570 | 164 | 211 | 220 | 210 | 202 |
| 3 Stars.....[German].. | 2 | 3.07 | Good | .25 | 2.2 | 5.2 | 359 | 442 | 467 | 495 | 456 | 159 | 190 | 262 | 256 | 313 |
| Beaver | 4 | 3.07 | Good | .0 | .5 | 2.4 | 353 | 397 | 388 | 444 | 471 | 123 | 181 | 249 | 248 | 328 |
| Ensign | 8 | 2.98 | Good | .0 | .0 | 0.8 | 346 | 395 | 468 | 488 | 497 | 112 | 177 | 233 | 230 | 254 |
| White Cross | 5 | 3.05 | Poor | 1.0 | 7.4 | 13.0 | 360 | 443 | 449 | 520 | 537 | 126 | 169 | 231 | 278 | 321 |
| Samson | 10 | 3.09 | Good | 1.0 | 3.0 | 4.3 | 429 | 489 | 535 | 554 | 559 | 134 | 211 | 251 | 273 | 295 |
| Star. ....[Canadian]... | 41 | 3.07½ | Good | .0 | 0.6 | 1.7 | 459 | 515 | 546 | 558 | 580 | 183 | 247 | 297 | 331 | 358 |

City Engineer's Office,
April, 1900.

1899

CEMENT SIFTING DIAGRAM

Number of Meshes in Sieve per sq. inch



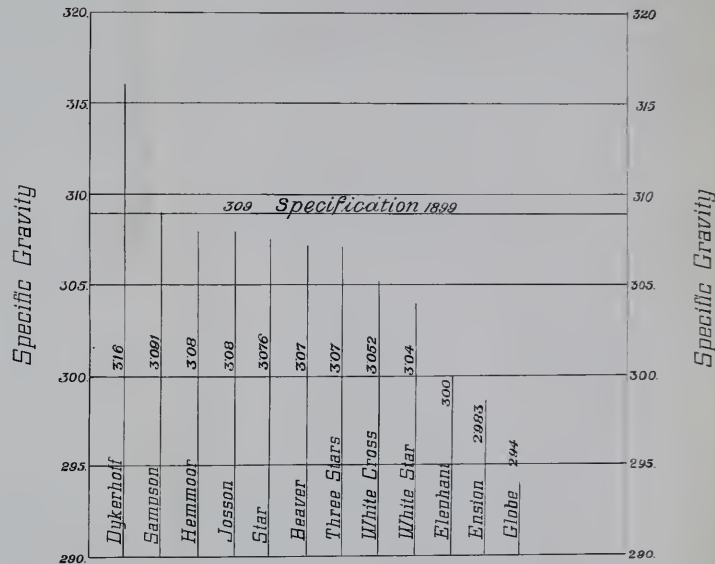
NOTE

All Portland Cements except
"Ensign" Silica Portland Cement

CEMENT

SPECIFIC GRAVITY DIAGRAM

1899



City Engineer's Office.

Toronto, April, 1900

THE
SOUTH AFRICAN
MAGAZINE

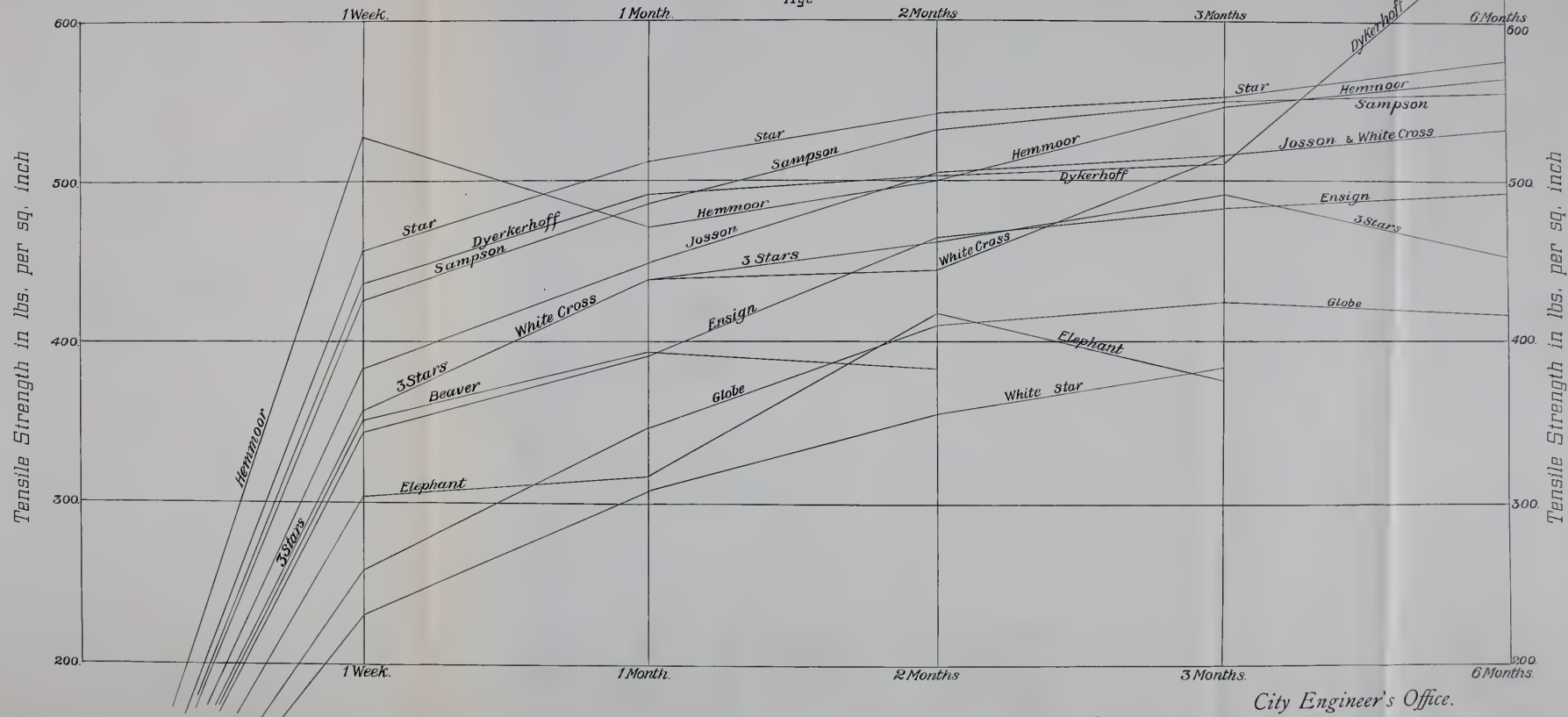


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NEAT CEMENT TESTS

1899

Age

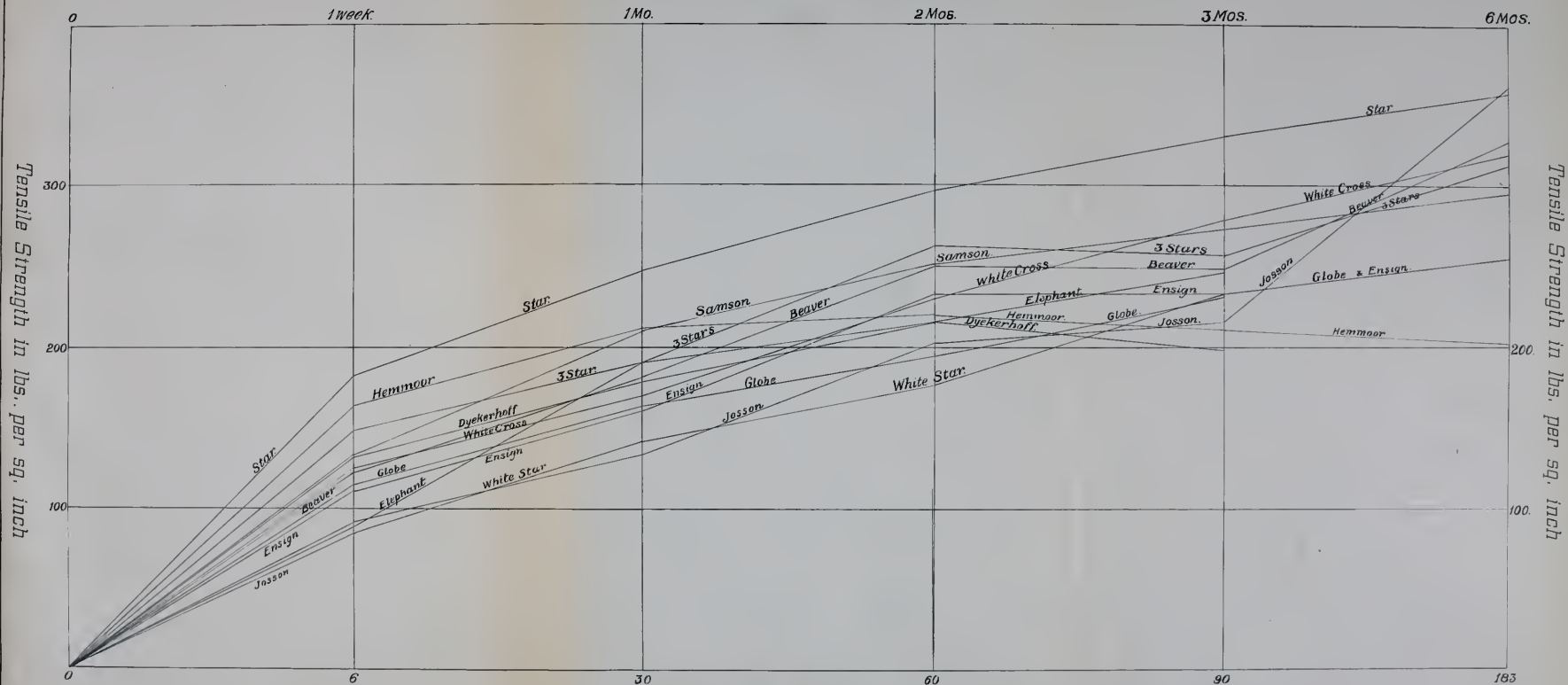


City Engineer's Office.

Toronto, April, 1900

CEMENT MORTAR—3 to 1

Age
1899



City Engineer's Office.

Toronto, April, 1900.

but the superstructures were built by day labor, the timber used being taken largely from the chords, etc., of the wooden Howe truss just taken down from Eastern Avenue.

The Eastern Avenue temporary bridge was made with one roadway 11 feet wide and one sidewalk 4 feet wide, or 15 feet in all.

The Queen Street temporary bridge was made wide enough to carry two street car tracks 17 feet wide and 8 feet of sidewalk, or 25 feet in all.

EASTERN AVENUE BRIDGE ABUTMENTS.

These are the first abutments built in Toronto, made entirely of concrete. They are founded on piles, are 30 feet high, 33 feet long and cost \$7,446.60, exclusive of inspection; but this amount includes, however, the cost of tearing down the old wooden Howe truss. The price of concrete was \$6 per cubic yard.

The iron work of this bridge is in course of erection.

HUMBER RIVER BRIDGE ABUTMENTS.

These abutments have been completed, and are also entirely of concrete founded on piles. They are 20 feet high, 35 feet long and cost \$4,473.15, exclusive of inspection.

The traffic was maintained on the old wooden bridge during construction, and the iron work had not begun to be erected at the end of the year.

The price of concrete was \$5.50 per cubic yard.

QUEEN STREET BRIDGE ABUTMENTS.

These abutments were practically completed at the end of the year, at a cost of about \$12,000, exclusive of inspection. They are of stone ashlar, founded on concrete and piles on the west side, and on solid rock on the east side. The contractor's time having expired on November 14th, 1899, and the work not being then carried on as expeditiously as was thought necessary, the contract was taken out of his hands and completed at his expense, forces working for twenty hours per day for eight days in putting in the foundation of the west abutment.

These abutments are 54 feet long and 29 feet high. The price of masonry was \$10 per cubic yard. The false work for the iron work has already been erected by the Hamilton Bridge Co., who have the contract for all the superstructure.

LEE AVENUE GRADING.

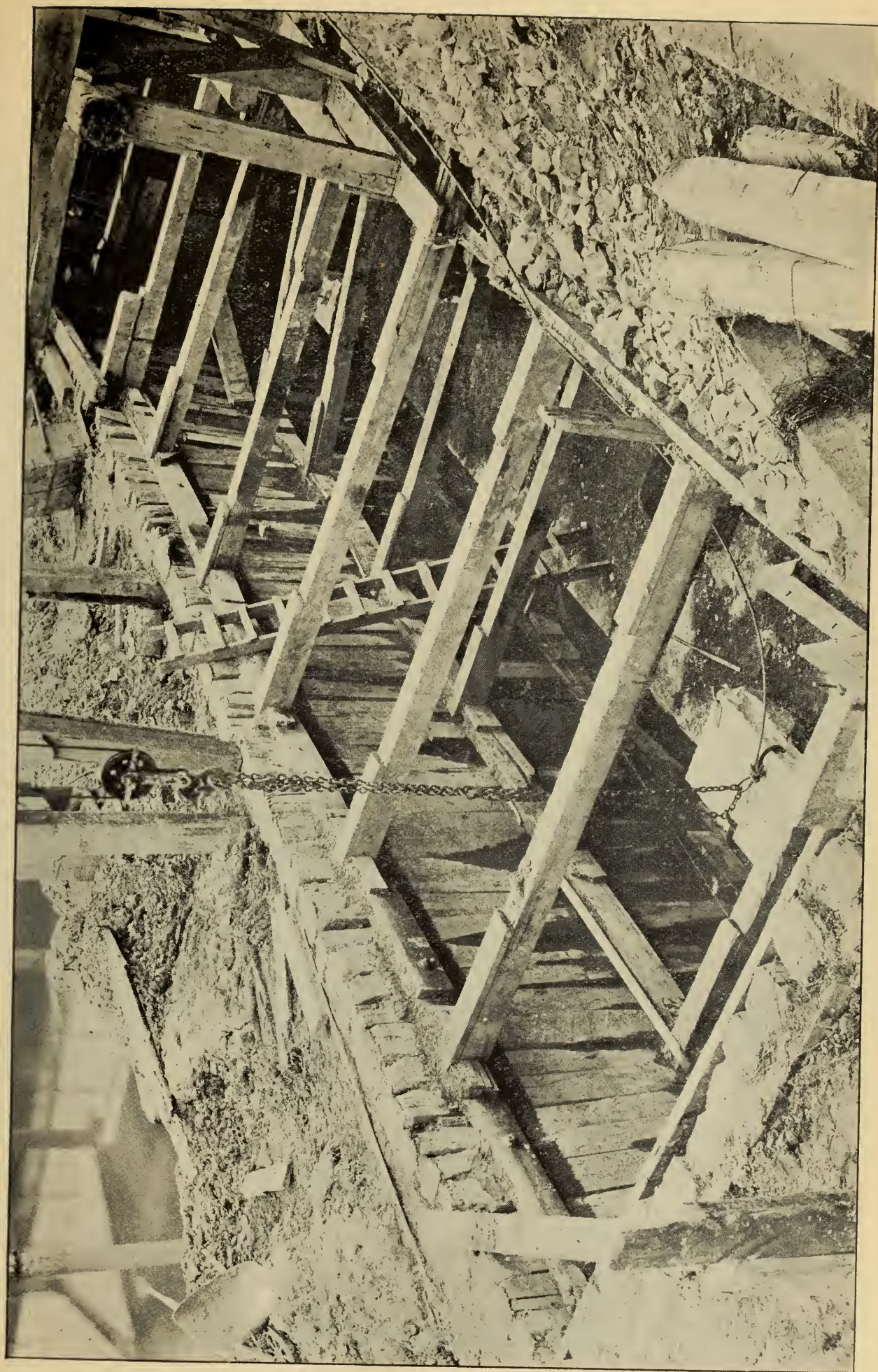
A ditch has been constructed down the east side of Lee Avenue, along with some grading necessitated by it, under the "Ditches and Water Courses Act."

ASHBRIDGE'S DITCH.

A ditch has been constructed from the northern City limits, at the Ashbridge's Estate across Queen Street and Eastern Avenue, to Ashbridge's Bay, under the "Ditches and Water Course Act."

Respectfully submitted,

CECIL B. SMITH,
Assistant Engineer.



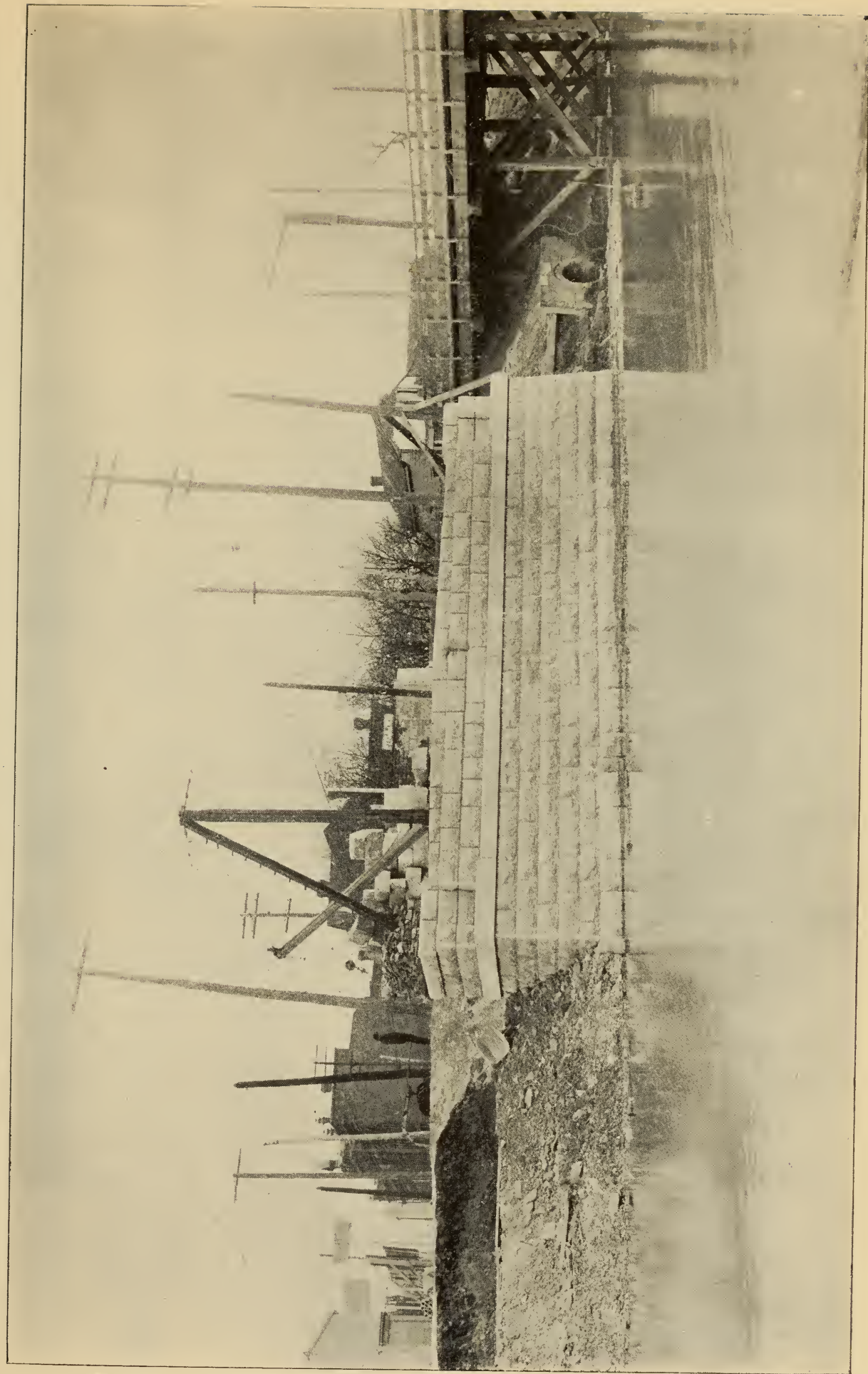
QUEEN STREET BRIDGE OVER DON RIVER, WEST ABUTMENT

1899



QUEEN STREET BRIDGE OVER DON RIVER EAST ABUTMENT

1899

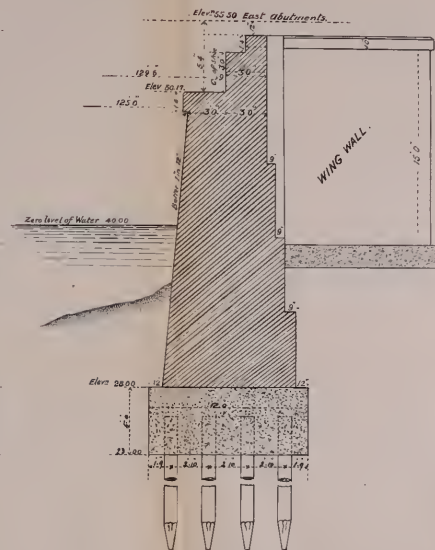


QUEEN STREET BRIDGE OVER DON RIVER, EAST ABUTMENT

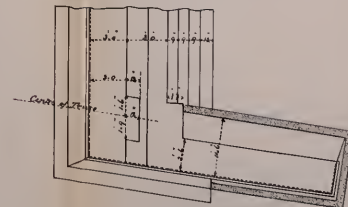
1899

[illegible]

QUEEN ST. BRIDGE.
— OVER RIVER DON —
DETAILS OF ABUTMENTS.



— TRANSVERSE SECTION AT —
— C. OF EAST ABUTMENT THE WEST —
— ABUTMENT IS 1. FOOT LOWER —



— PLAN OF WING WALL

CITY ENGINEERS OFFICE
TORONTO OCT. 4th 1899

С. А. Давыдов
Секретарь

BRIDGES.

CITY ENGINEER'S OFFICE,

Toronto, December 30th, 1899.

C. H. RUST, Esq.,

City Engineer.

DEAR SIR,—The following is a report of the Bridge work done during the past year :

LAMB'S DRAW BRIDGE.—New roller wheels were placed on this bridge to replace those broken. Considerable repairs have been made on bridge and deck. As this structure was not designed to carry the heavy traffic it now has to sustain, it requires constant attention and repairs throughout the year. If this heavy traffic continues, a new and stronger bridge will have to be erected at this point, in the near future.

CHERRY STREET BRIDGE.—Owing to the severe floods in the early part of the year, the easterly crib of this bridge, in centre of channel, was partly overturned and considerably damaged. The position taken by the damaged crib partly blocked the southern channel, so that the stone filling had to be removed and the upper part of the crib raised and floated, leaving the bottom part and two courses of timbers on the bed of the river. The water over this sunken portion is of sufficient depth for boat traffic.

STRACHAN AVENUE BRIDGES.—A new 2-in. wearing surface has been placed on both these bridges, the hand-railing repaired and all the bents examined, repaired and braced where necessary. Some of the supports of the floor beams and sills will have to be renewed during the coming season.

BIN SCARTH BRIDGE.—This bridge has been examined and repaired where necessary, but it will soon require considerable repairs, and probably entire renewal, as much of the material in the supports shows decay.

CASTLE FRANK BRIDGE.—When this bridge was partially rebuilt in 1896, old but then sound lumber was used in the sills and bents.

This timber is at present much decayed, and will require renewal in the near future. Some repairs to the deck and hand-railing of the bridge were made this season.

SHAW STREET BRIDGE.—The planking in the deck of this bridge was partly renewed, the railing repaired and some pieces of the bents removed and replaced with sound timber, where needed. If the site of this bridge is to be filled in, as proposed, the sills and bents must be thoroughly repaired next season, so that the bridge will remain firm during the process of filling. The deck must also be renewed.

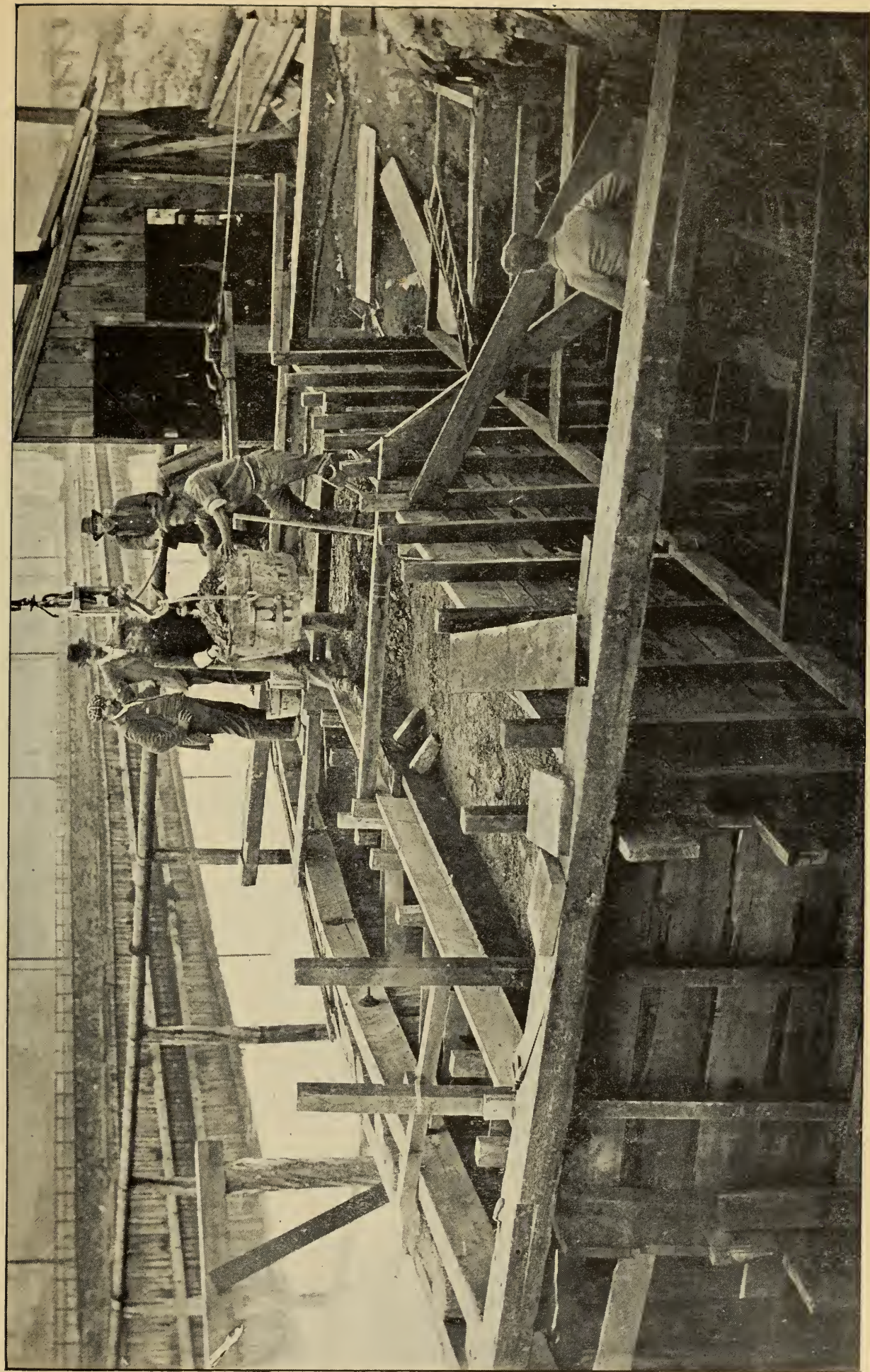
CRAWFORD STREET BRIDGE.—The wearing course of the deck of this bridge has been partly renewed and some general repairs made, but the bridge is now in a very poor condition, the underplanking and stringers being much decayed. This structure must either be repaired very soon, or preparations must be made to replace it by a new bridge.

HUMBER BRIDGE.—In view of the decision to erect a new steel bridge to replace the existing wooden one, piles and bents were placed in the river to support the bridge deck, independently of the trusses. During the spring freshets, these bents were washed away, and timbers in the form of a queen truss were placed under the south side of the west span. The deck of the bridge was reduced in width by placing a heavy fence in the centre, thus confining the traffic to the north side of the bridge, which was the strongest side. The deck of this bridge was much disturbed by the operations of the contractor for the masonry work on the new bridge, but all was made safe for ordinary traffic.

YORK STREET BRIDGE.—The new stairway and fence placed at the south end of this bridge in 1898, was examined and painted.

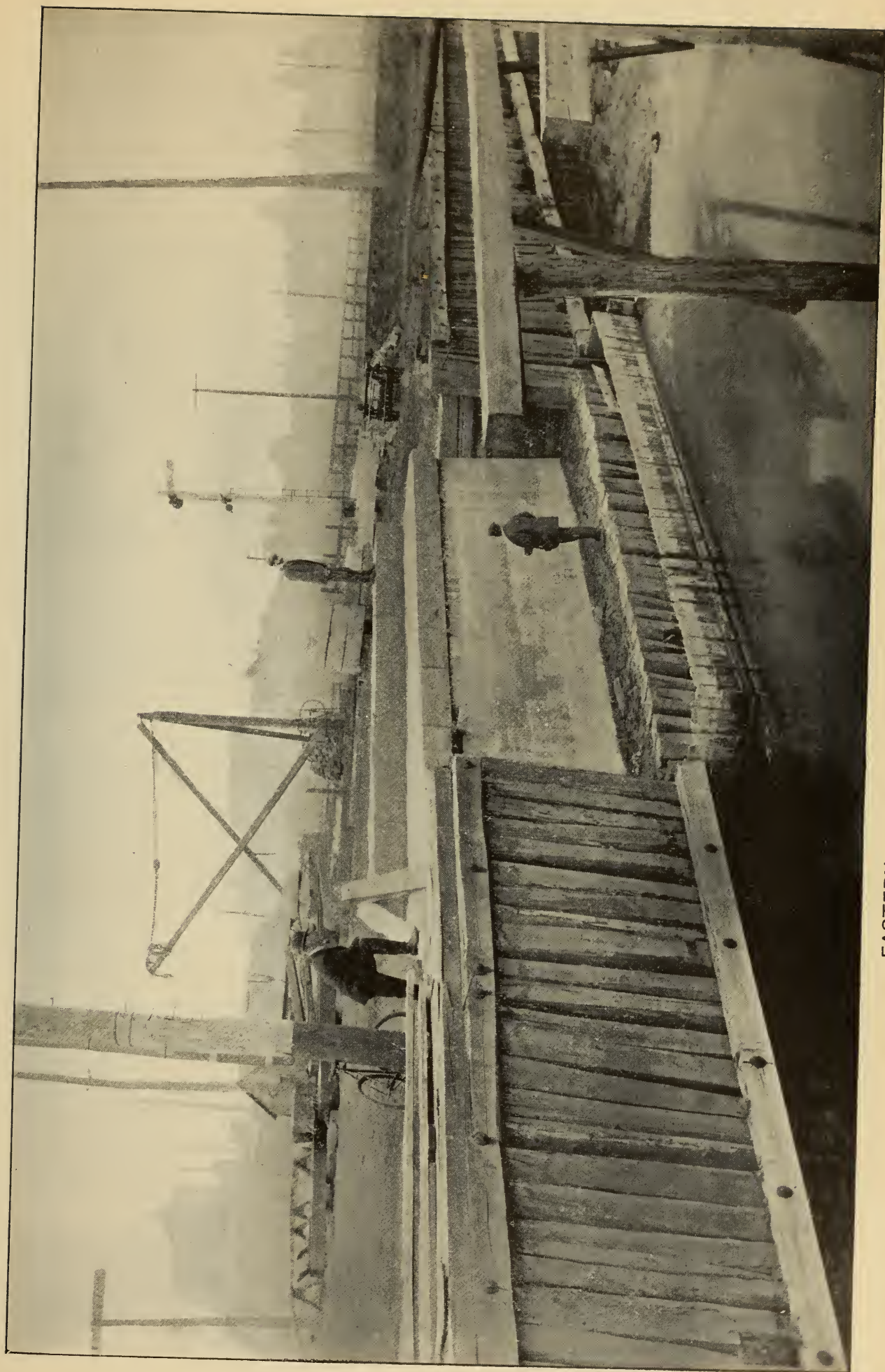
EASTERN AVENUE BRIDGE.—In view of the decision to erect a new bridge to replace the existing one, only such repairs to the deck and reinforcing of the weak places were done that were necessary to keep the bridge in a safe condition for traffic.

CULVERTS IN LAKE SHORE ROAD.—The two Lake Shore Road culverts (one being the outlet for Grenadier Pond, and the other for the pond at the south end of High Park) were opened, new timbers or sills put on side timbers, new planking placed over all, and the roadway replaced and consolidated.



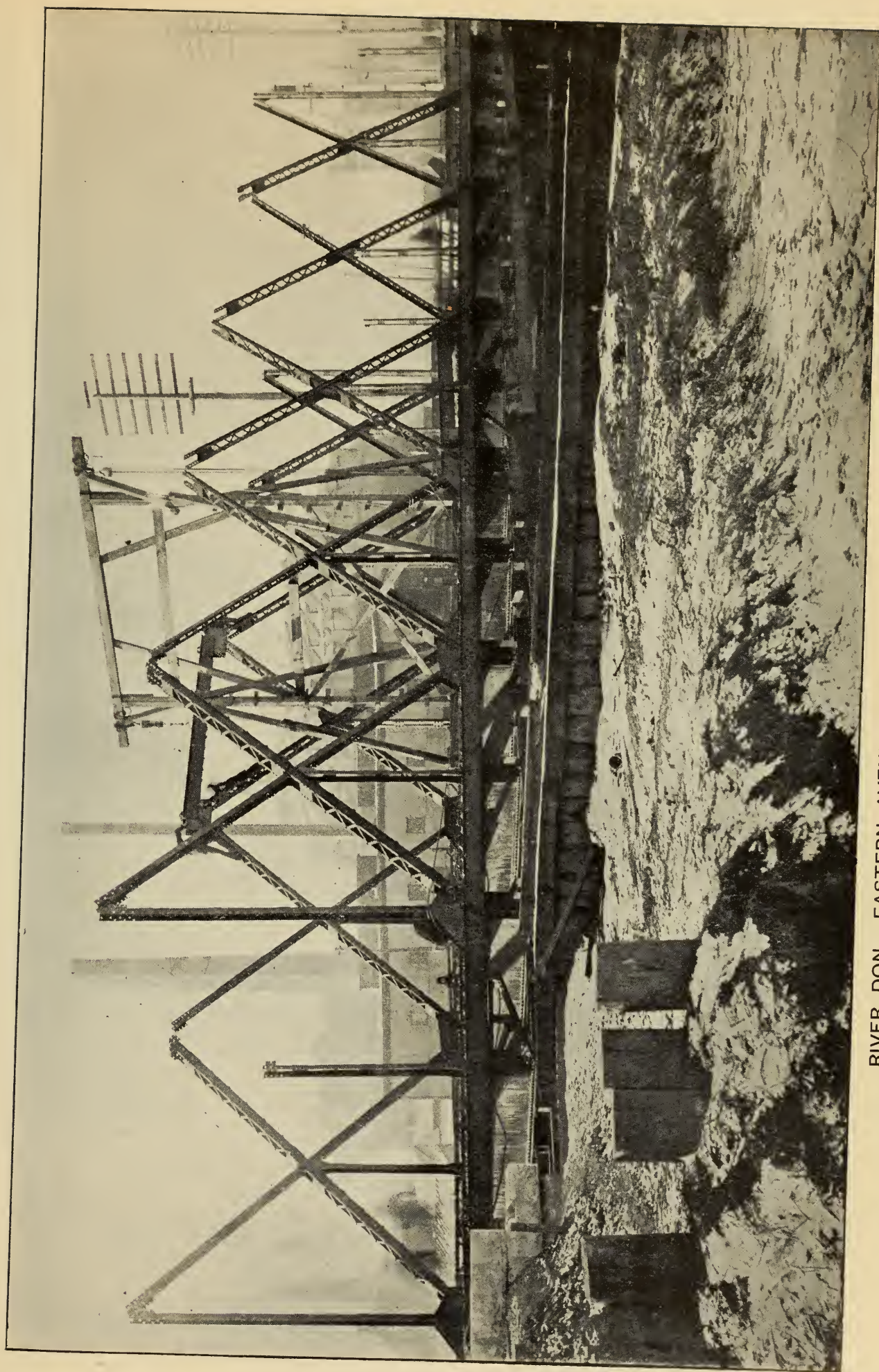
EASTERN AVENUE BRIDGE EAST ABUTMENT,

1899



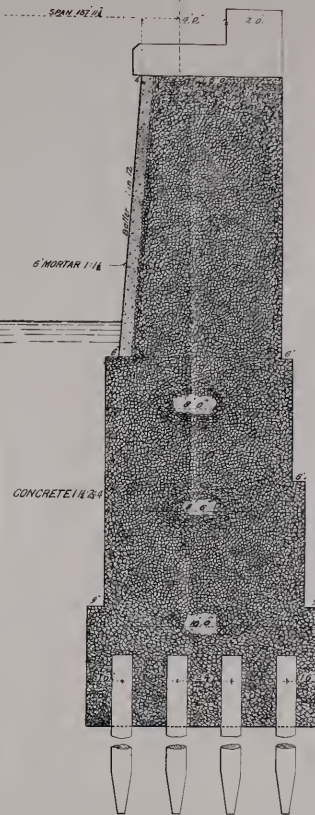
EASTERN AVENUE BRIDGE, WEST ABUTMENT

1899



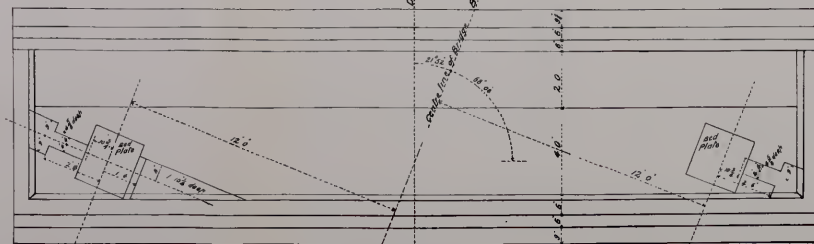
RIVER DON—EASTERN AVENUE BRIDGE IN COURSE OF ERECTION
1899



Elevation of Roadway 34.00

SECTION ON LINE C.D.
AT RIGHT ANGLES TO ABUTMENTS

—DETAILS OF ABUTMENTS.



PLAN.

CITY ENGINEERS OFFICE.

TORONTO. JUNE 1899.

C. H. Perot.
City Engineer
16
699

GERRARD STREET BRIDGE.—A new 2-in. plank wearing surface was laid between the tracks over the entire length of this bridge, and the supports of the end panels of hand-railings were replaced by cast iron posts, which were bolted to the masonry and hand-rail standards.

HUNTLEY STREET BRIDGE.—An entirely new deck has been laid on this bridge, with the exception of a few stringers that were found good and sound, and a system of side drainage was also put in, as the old vertical spouts were constantly filled with street sweepings.

GLEN ROAD BRIDGE.—This bridge was in a dangerous condition, the cast iron post for hand-rail, resting on timber joists only, which were much decayed. Twelve-inch I beams have been placed transversely to the bridge, so as to carry each of the hand-rail posts, and a cast iron extension piece was placed between the I beams and posts to bring the sidewalk to the proper level. An entirely new deck, both stringers and planking, has been put on this bridge, and a system of side drainage introduced, similar to that put in the Huntley Street bridge. This structure is now in first-class condition, and although the trestle bents are on the light side of strength, yet the bridge is better now than when first built.

DUNDAS STREET BRIDGE.—As the devil strip on this bridge was of the old width, viz., three feet between the rails, in order to lessen the possibility of accidents and to comply with the request of the Toronto Railway Co., it was widened. The planking on this bridge was in very good condition and did not need renewing, so it was sawn through on the north side of the north track and on the south side of the south track, next the 12-in. stringer, the planking moved from the devil strip, the track forced over until the sawn planks were hard against the rails, and the planking renailed to the stringers. This made the devil strip 3 feet 8 inches between the rails, or 2 inches wider than required. The under planking in the devil strip, having been laid diagonally, was long enough to cut and lay at right angles to the rails, so that very little new planking was required. The roadway section between the bridges and the approaches thereto, had to be taken up and reblocked.

RIVERDALE PARK FOOT BRIDGE.—This bridge is in fairly good condition, although it shows signs of decay in a few places. Slight repairs will suffice to keep it in good repair for some time to come.

WINCHESTER STREET BRIDGE.—This bridge shows some signs of decay, but is still in fairly good condition. A few renewals to deck planks and a little paint, will keep it in good order.

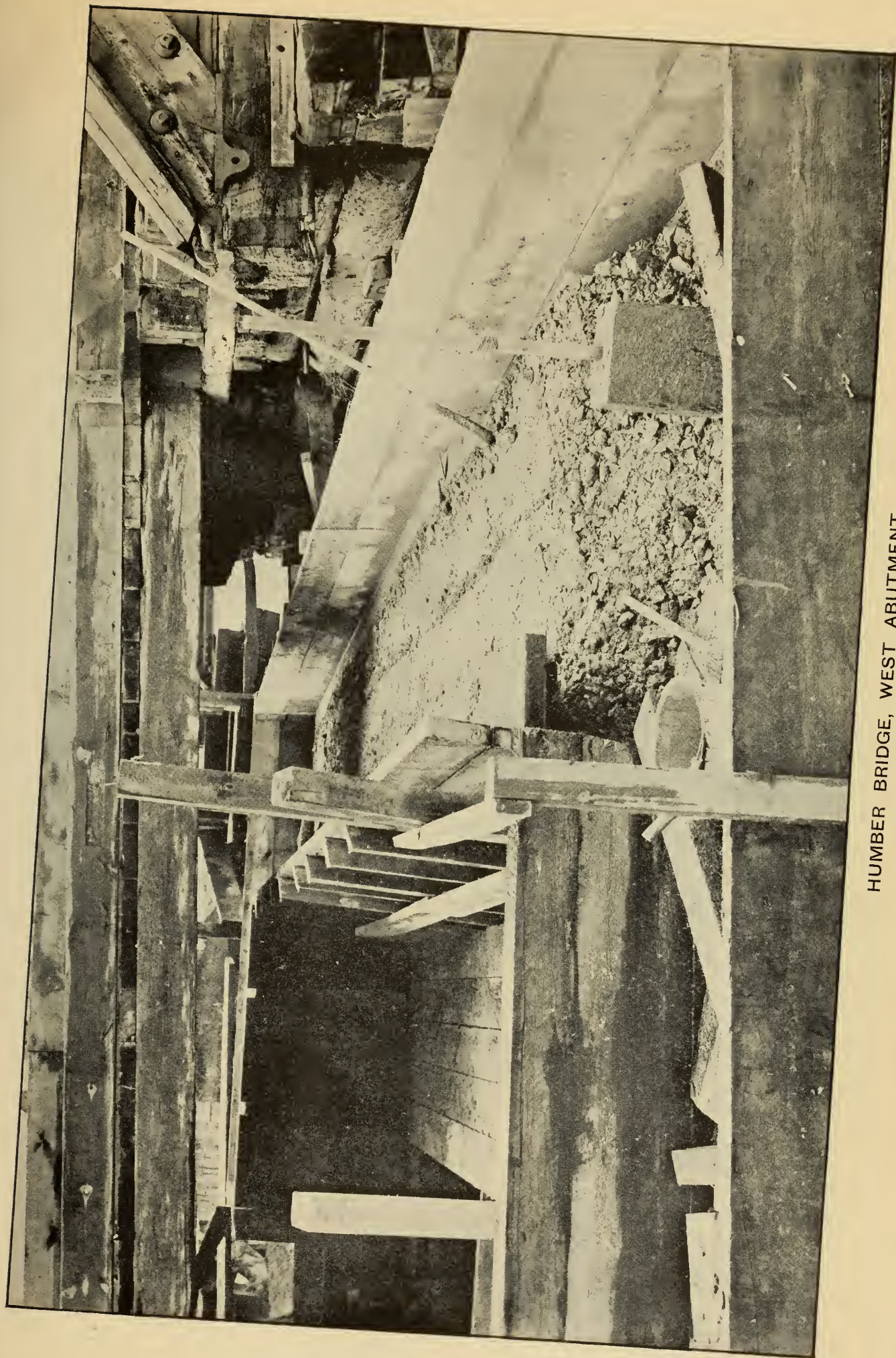
DANFORTH AVENUE BRIDGE.—This bridge must be entirely renewed, as the timbers are very much decayed.

SHERBOURNE STREET BRIDGE.—This bridge is in very good condition, but owing to a slight inequality in the level of the deck, a few extra drain pipes will have to be laid in the coming spring.

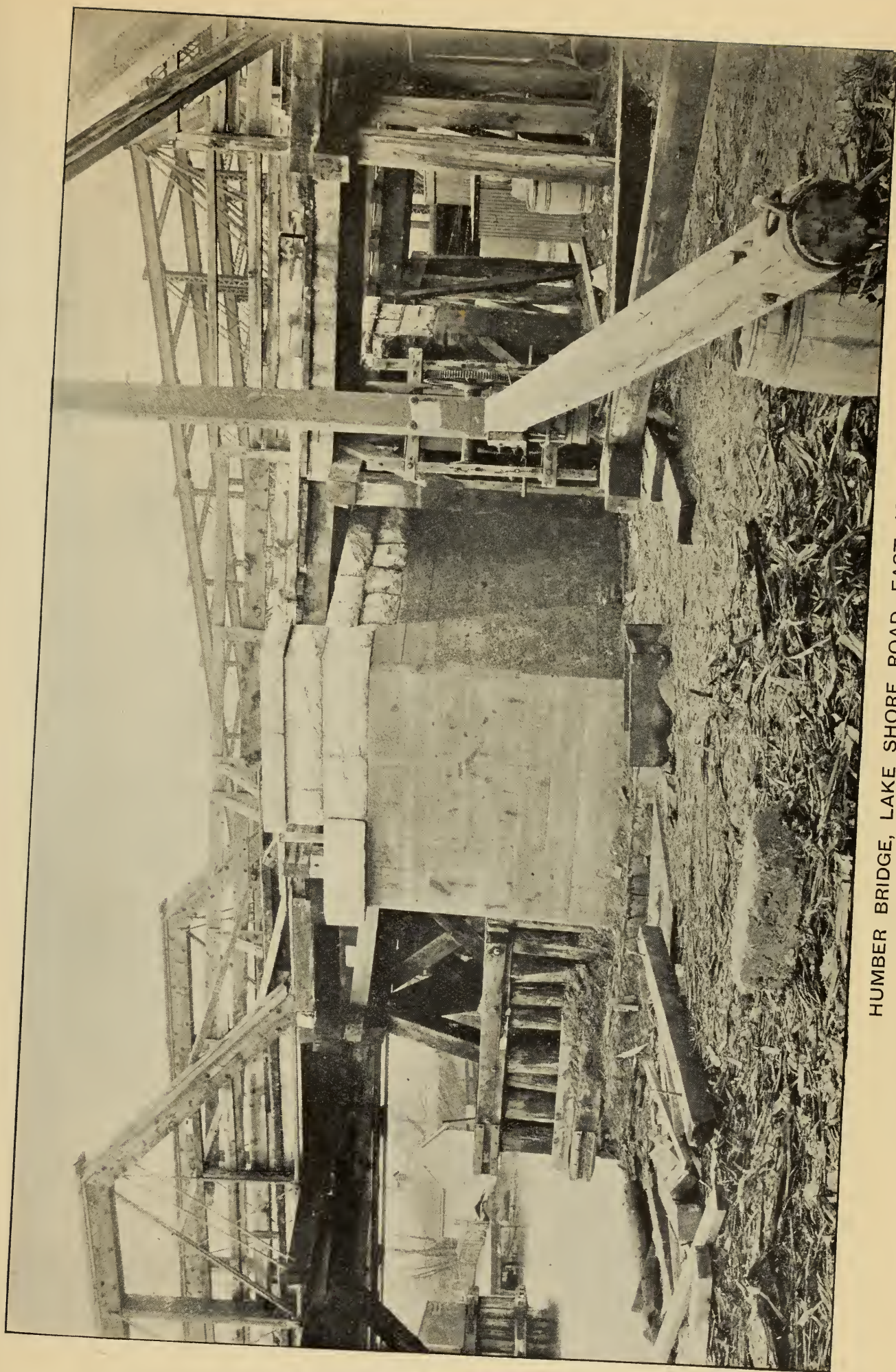
Respectfully submitted,

JOHN WILLIAMS,

Assistant Engineer.

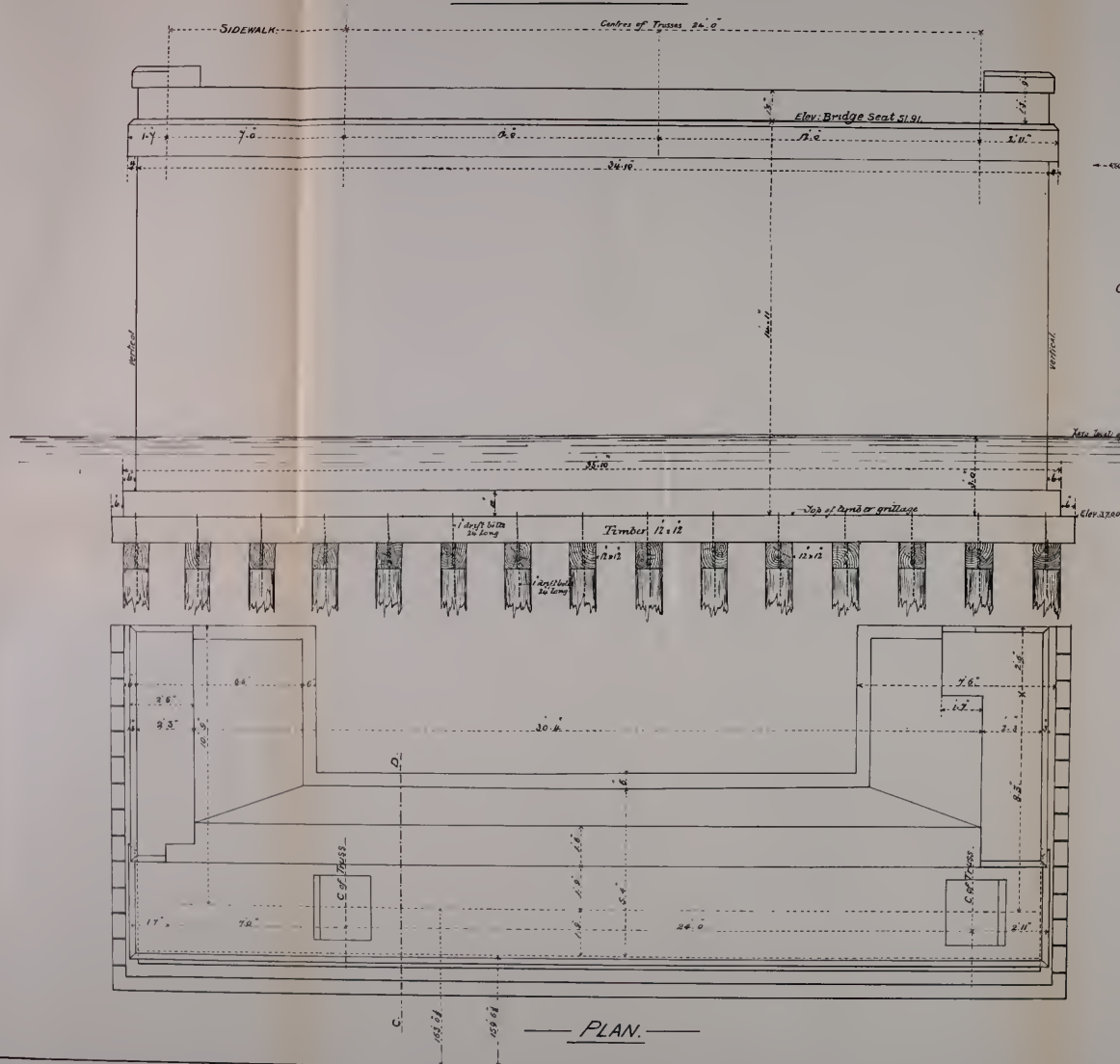


HUMBER BRIDGE, WEST ABUTMENT
1899

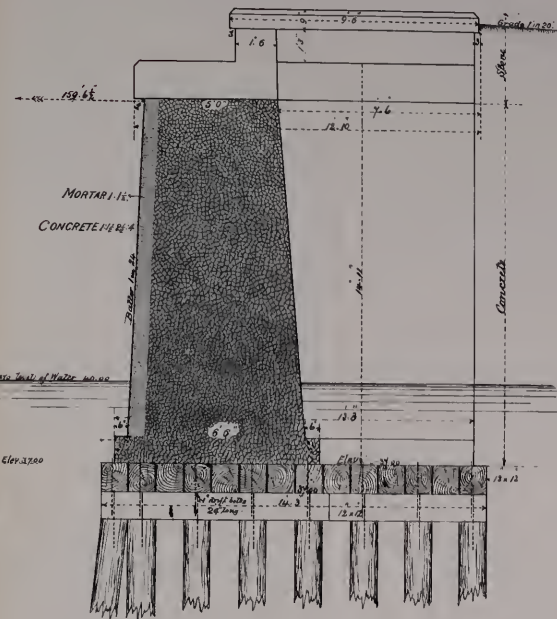


HUMBER BRIDGE, LAKE SHORE ROAD, EAST ABUTMENT
1899

ELEVATION OF ABUTMENT.



SECTION ON LINE C.D.



HUMBER RIVER BRIDGE.

DETAILS OF ABUTMENTS.

NOTE: THIS DRAWING SHOWS THE WEST ABUTMENT.
THE WING WALLS IN THE EAST ABUTMENT
ARE 2' 0" SHORTER VIZ 11' 5" OVER FOOTINGS.

CITY ENGINEER'S OFFICE
TORONTO SEP 28th 1899

Chas. R. ...
City Engineer

REPORT OF STREET COMMISSIONER.

CITY ENGINEER'S DEPT.,

Toronto, December 30th, 1899.

C. H. RUST, Esq.,

City Engineer.

I beg to submit a report of the works carried out under my supervision during the past year:

ROADWAYS.

The roadways throughout the City, composed as they are of cedar block, macadam, stone, etc., (other than asphalt and brick) the lifetime of which as Local Improvements have not expired, have been kept in the best of condition possible. The funds appropriated for the maintenance of these roads were found inadequate. Extensive repairs have been made to macadam roadways that have been constructed in recent years as Local Improvements, as follows:

| Street. | From | To | No. of square yards. | Cost. |
|--------------------|------------|-----------------|-------------------------|----------|
| Jarvis..... | Queen..... | King..... | 2,702 | \$354 38 |
| Richmond | York..... | Bay..... | 1,794 | 178 35 |
| Temperance | Bay..... | Yonge | 960 | 104 79 |
| John | King..... | Front | | 24 81 |
| Sheppard | | | | 15 60 |

The funds appropriated under the heading of "General Road Repairs," have been expended on the grading of unimproved roadways, many of which are not drained. These are largely in localities that would not stand an expenditure for a Local Improvement. Many of these roadways have been coated with ashes collected in the neighborhood. While the roadway will not stand heavy traffic, yet it meets with the requirements of the locality.

LANGLEY AVENUE ROADWAY.

There was constructed by day labor, under this Department, a macadam roadway on Langley Avenue, from Broadview Avenue to Logan Avenue. Work was commenced November 1st 1898, and completed May 9th, 1899. Length 1,959 feet; width, 24 feet; number of superficial yards 5,224; cost \$2,707.89.

QUEEN STREET AVENUE REPAIRS.

Repairs to the macadam roadway on Queen Street Avenue, both north and south of College Street, were made to the extent of 1,460 yards of re-surfacing, at a cost of \$1,498.62.

GLEN ROAD ROADWAY.

SOUTH DRIVE TO THE BRIDGE.

A cedar log roadway, with a 3-in. top dressing of broken stone, was constructed on both sides of the railway track on Glen Road, from South Drive to the Bridge. This was necessitated by the construction of the Street Railway Line, and was charged to the track allowance account.

LEVELLING NORTH BANK OF KEATING'S CHANNEL

Pursuant to order of Board of Control, \$600.00 was authorized to be spent "for the purpose of providing work for unemployed men in levelling down the north bank of McNamee's Cut." This was done for a length of 875 feet, and an average width of 11 feet.

CROSSINGS.

The funds at the disposal of the Department for crossings, have been expended to the best advantage. Pursuant to order of the Committee on Works, 13 scoria crossings were constructed on Beverley Street. Granite sett crossings were also constructed across Bathurst Street, at Wellington; across Esplanade, at Yonge Street, and across Scott Street, at Esplanade. Brick crossings were constructed on the west side of Homewood Avenue, at Montague Place, Suffolk Place and Maitland Place, Queen's Park and Czar Street.

The construction of these crossings has very extensively eaten into the small funds appropriated for this service, so that the ordinary work of crossing repair and construction has suffered very materially. The crossing account is one that will require to be considerably augmented in the near future, as it is folly to construct any more wooden crossings in the down-town section of the City.

CURBING.

With the small appropriation at the disposal of the Department, the curbing repairs, both stone and wood, have received the best attention possible.

SIDEWALKS.

The mileage of wooden sidewalks constructed as Local Improvements during the year, was slightly in excess of 32 miles, made up as follows :

| | |
|---------------------|--------------|
| 4 ft. | 9.25 miles. |
| 5½ ft. | 5.46 miles. |
| 6 ft. | 16.70 miles. |
| Miscellaneous | 0.63 miles. |

Total..... 32.04 miles.

To construct the above 32.04 miles of sidewalks necessitated the use of 2,578,635 feet of lumber, costing \$30,661.29 ; and 69,442 lbs. of nails and spikes. The labor amounted to \$10,579.52. The total cost was \$46,536.17.

For the reason that lumber and nails have increased very materially in price, it is to be hoped that, in future, ratepayers will adopt concrete or brick, in lieu of wooden sidewalks. There is no doubt whatever that a permanent walk of the class suggested is more economical than wood.

The change in the law that has been effected, conferring power on municipalities to construct wooden sidewalks in the public interest, notwithstanding any petitions that might be submitted against the work by the property owners, has been of great value to the Department. There have been a few instances where property owners have persistently opposed the construction of sidewalks, in the expectation that the same would be constructed out of the general rate of taxation. For this reason they petitioned against the construction of the walks as Local Improvements.

Pursuant to Order of Council, the undermentioned sidewalks were constructed out of the general rate; the property fronting upon the sidewalk being owned by the City :

| | |
|--|----------------|
| Queen Street, n.s., fronting Leslie Park ; width, 6 feet | cost \$ 53 01 |
| Lake Shore Road, s.s., from 1,460 feet west of Howard Park entrance to Windermere Avenue ; width, 6 feet..... | .. cost 334 04 |
| Adelaide Street, n.s., from Brant to Maud ; width 6 feet..... | cost 96 75 |
| Cherry Street, west side, from Cherry Street Bridge to drawbridge over Keating Channel ; width, 4 feet | cost 187 51 |
| First Avenue, n.s., from Bolton to DeGrassi ; width, 8 feet | cost 74 95 |

I enclose a list of the wood walks constructed as Local Improvements in the different Wards, giving details as to width, length, material and cost individually.

ISLAND PARK SIDEWALK.

Pursuant to Order of Council, an 8-ft. wooden sidewalk was constructed at Island Park from the Wharf to Hallam's Bridge, a length of 1,400 feet, at a cost of \$445.51.

EASTERN AVENUE CINDER PATH.

A cinder path was constructed on the south boulevard of Eastern Avenue, from the Grand Trunk Railway Crossing to a point 450 feet east of Pape Avenue, at an average width of $6\frac{1}{2}$ feet.

STREET NUMBERING.

This service has consisted, I might say entirely, of putting up numbers here and there throughout the City where they became loose, broken, or on new houses. The City has not been re-numbered since 1889, and there are many streets that require almost immediate attention in the re-numbering; and I think a contract for the supply of house numbers and tablets, etc., might be awarded during the coming Fall or Winter, so that the work of re-numbering, etc., might be done during the early Spring or Summer of 1901.

HOUSE OF INDUSTRY STONE.

During the early Spring 106 toise of stone were broken at the House of Industry, for road repairs, by the occupants of the Institution.

NORTHERN CITY STABLES.

A drain was constructed at the above stables, on complaint of the Toronto Railway Company that their premises were being flooded by the water from these stables. The drain will be of great value, and materially improve the heretofore insanitary condition of these stables.

SIDEWALK EXTENSIONS.

During the year the sum of \$2,112.05 was paid to the City Treasurer for sidewalk extensions, and on Miscellaneous Account the sum of \$904.73 has been paid. The sidewalk extensions are for short stretches of walk, and for increased width of sidewalk over that recommended as Local Improvements.

STREET OPENING PERMITS.

A deposit of \$10 for wooden sidewalks, and \$20 for stone walks, is exacted as a guarantee that these walks will be properly restored when they are taken up, and on the restoration of same, the deposits

are refunded. Under this heading, permits to the number of 45, amounting to \$475, have been granted to persons who have required to temporarily lift sections of sidewalk. Of the above amount, \$415 has been refunded.

FREE BATHING.

Free bathing for boys was placed under the supervision of this Department. At the west point (Island), it commenced on July 3rd, and was closed September 9th. 46,436 boys patronized this place during that period. The bathing spot for the east end was that used in former years, namely, east of the Eastern Channel on the Island, on the lake side. This place was opened June 19th and closed September 9th. 27,060 boys used this point. The boys were carried to these points by free ferry. The River Don, north of Winchester Street, was also made use of for free bathing, and 22,875 boys used this spot between July 3rd, and September 9th. At each of these places a man was placed in charge, to control the boys and also to render any assistance when necessary, should the boys get beyond their depth, etc. A shelter was erected at the foot of Woodbine Avenue, but nobody was placed in charge.

SNOW REMOVAL (SIDEWALKS.)

During the Winter of 1898-99, snow was removed from about 275 miles of sidewalks, at a rate of 3 mills per foot frontage each cleaning. The cost of this work was assessed against the property fronting which the cleaning was done. This service was also the means of giving employment to a large number of men at a season of the year when there is little or no laboring work.

SCAVENGING.

During the year there was a total of 129,617 loads of ashes and garbage collected throughout the City. Of this quantity, 99,387 loads were ashes, and 30,230 loads were garbage. All the garbage was carted to the Eastern or Western Crematories, and there consumed. The ashes have been deposited at the dumps, and have also been used for coating some of the unimproved mud roads.

Since making a summary of the work for 1898, the filling in of the Esplanade, under agreement with the Canadian Pacific Railway, with collections in the district specified in such agreement, has been

completed, and the collections from about this area are now being deposited on the block that has been cribbed on the water front between Bay and Lorne Streets.

This service is one that most every city throughout the continent is devoting more or less attention to. During the year there have been a number of deputations visit this City, with a view to collecting data as to the manner of collecting, and the subsequent cremation of the garbage; and also the disposition of ashes and sweepings. At the Convention of the American Society of Municipal Improvements, which was held in this City (City Hall) in October, considerable attention was devoted to the subject. The trend in the American cities seems to be towards making a daily collection in the central or business section of the city, for the reason that there are practically no alleys in the cities that have decided on, or are looking towards, a daily collection. The same conditions do not apply to Toronto, inasmuch as there are few cities that have more alleys in proportion to street mileage than Toronto, as, with few exceptions, properties are backed by lanes or alleys.

A proposition was made to erect a third crematory on the water front, in the region of the Water Works Dock. A Sub-Committee has been appointed, and I hope they will take the matter up. I am sure I can convince them that it would be an economical expenditure to provide for a crematory at this point. It would provide for the cremation of garbage, etc., from a very large area in the centre of the City, which at present has to be hauled more or less about two miles.

I think that a By-law should be passed by Council, providing that separate receptacles for both ashes and garbage, of standard sizes, that could be conveniently handled by one man, should be provided by householders, etc., for their garbage and ashes. This would obviate the necessity of dumping the ashes, etc., on the pavements, to load into the carts. At present we find the ashes and garbage placed on the streets and lanes in all kinds of receptacles, from galvanized iron tins to frail fruit baskets.

This By-law might also include a provision that loose paper, etc., and material of this nature, should be tightly bundled before it is placed on the lanes and streets for collection by the scavengers.

This would get rid of a great nuisance that is at present experienced on account of the quantity of loose paper that is found blowing on the streets.

I attach a copy of the paper read by myself at the Convention of the American Society of Municipal Improvements, which is referred to above.

ISLAND SCAVENGING.

A semi-weekly collection was made to all parts of the Island in the summer season. The service was begun on May 17th, and closed October 6th.

STREET CLEANING.

The funds appropriated for this service cover a great deal more work than what appears under the heading of "Street Cleaning." This account includes the cost of cleaning bridges, wings of sidewalks, street crossings, etc., of snow in the winter season, and in the summer season the work of sweeping by the Patrol, or Orderly System, of the main asphalted streets, and the other streets by the machines; and also flushing King, Yonge and Queen Street asphalt pavements. This service, together with the asphalt service, has received, if it is possible, more attention than any other service under my supervision. These works will increase in cost from year to year, as suitable dumps are very difficult to obtain, and the haul is from year to year increasing. Many thousands of loads of sweepings have been deposited on the block that has been cribbed at the foot of Bay Street, on the water front. This has been a particularly good dump for the centre section of the City. Some considerable number of loads of sweepings have been deposited on private property, pursuant to request of the property owners.

The expenditure for cleaning the asphalt pavements, by the uniformed Patrol men, was \$11,748.47.

The mileage (lineal) of streets cleaned was 1,730: and the number of loads of sweepings collected was 38,880.

The disposal of sweepings and scrapings will require to be taken up by the Department, with a view to providing some adequate provision for the reception of this material, by hauling by the trolley system to Ashbridge's Bay, or to some other place.

SNOW REMOVAL (ROADWAYS).

On March 17th, 18th and 19th a very heavy snow storm was experienced, which necessitated the removal of 4,196 loads of snow from the transfer points, intersections, etc.

STREET WATERING.

The street sprinkling by waggons necessitated the distribution of 105,757 loads, representing 52,641,000 gallons.

The past season was the sixth for the trolley system of street sprinkling of the track allowances. The trolley tanks (three in number) traversed 19,048 miles, costing \$3,095.31. This is at the rate of $16\frac{1}{4}$ cents per mile. The water used in this service was 28,845,800 gallons; making a total for the whole service of 81,486,800 gallons.

STREET FLUSHING.

Pursuant to order of Board of Control, Yonge Street, from Davenport Road to King; King Street, from Sherbourne to Simcoe; and Queen Street, from Niagara to River, were flushed at night, semi-weekly, between April 24th, and October 12th. This was charged to the "Street Cleaning," account, the cost of which was \$1,408.43.

I have given some considerable study to removing the dust on Yonge Street, as there seems to be a greater amount on this thoroughfare than any other asphalt pavement in the City, and I find that it is owing to so many streets that radiate from this street, both east and west, that are macadamized. These streets are macadamized only in the centre, and the sides are unimproved, with the result that the vehicles that turn from these streets on to Yonge Street take with them quite a percentage of mud, etc., which is ground up into dust, and is what causes the annoyance.

WESTERN BREAKWATER.

The Breakwater running south from opposite Queen's Wharf, was planked with 3-in. plank 12 feet wide, for its entire length, 575 feet.

EASTERN BREAKWATER.

The planking on the Eastern Breakwater, at Centre Island, was continued from the point that was done in 1898, namely 1,839 feet

east of Chippewa Avenue, a further distance of 1,200 feet. In addition to this, a piece 586 feet long was planked, commencing at the west end of the Breakwater, extending east to Chippewa Avenue. No scantling was necessary in this planking, as the planks were laid on top of the cross pieces.

Yours faithfully,

JOHN JONES

Street Commissioner.

LIST OF PLANKSIDEWALKS CONSTRUCTED BY STREET COMMISSIONER'S DEPARTMENT AS LOCAL IMPROVEMENTS DURING 1899.

DISTRICT No. 1.

| Street. | Side. | From | To | Width (feet.) | Length (feet.) | Lumber (ft. B.M.) | Nails (lbs.) | Total Cost. |
|----------|-------|--------------|------------------------|---------------|----------------|-------------------|--------------|-------------|
| Austin | N. | Pape | 581 ft. east | 4 | 581 | 6,214 | 200 | \$ 271 99 |
| | | | | | curbing | 1,937 | | |
| | | | | | spikes | | 50 | |
| | | | | | c.p'sts | 1 1/4 cords | | |
| Allen | S. | Broadview | Bolton | 4 | 825 | 8,816 | 300 | 160 97 |
| Bain | S. | Pape | Carlaw | 4 | 582 | 6,224 | 200 | 121 02 |
| Cherry | E. | Front | Mill | 5 1/3 | 439 | 6,476 | 200 | 130 00 |
| Danforth | S. | Broadview | Pape | 4 | 3,714 | 40,040 | 1,100 | 623 01 |
| Eastern | S. | St. Lawrence | Water | 4 | 315 | 3,376 | 100 | 81 40 |
| Elliott | S. | Broadview | Bolton | 6 | 822 | 13,168 | 350 | 209 52 |
| First | N. | Bolton | DeGrassi | 8 | 228 | | | |
| Howland | W. | Gerrard | Victor | 4 | 511 | 5,468 | 200 | 103 95 |
| Knox | E. | Queen | Eastern | 4 | 596 | 6,374 | 200 | 112 79 |
| Lewis | B. | " | " | 4 | 1,901 | 20,310 | 600 | 366 18 |
| Morse | E. | " | " | 6 | 960 | 15,081 | 450 | 265 13 |
| Mill | N. | Water | Beachell | 5 1/3 | 495 | 7,276 | 200 | 130 19 |
| " | N. | " | Cherry | 4 | 706 | 7,584 | 200 | 119 69 |
| Queen | N. | Verral | 150 ft. west | 12 | 150 | 4,456 | 150 | 80 68 |
| " | S. | Broadview | East side Smith's Blk | 6 | 557 | 8,928 | 300 | 161 91 |
| * " | S. | Lewis | Broadview | 6 | 259 | 4,160 | 200 | 80 04 |
| + " | S. | Caroline | Pt. 117 ft. e. of Knox | 6 | 2,546 | 40,864 | 1,000 | 807 26 |
| | | | | | 20 cedar posts | | | |
| Saulter | S. | Queen | G. T. Railway | 5 1/3 | 843 | 12,314 | 400 | 259 52 |
| Sumach | W. | Wilton | 67 ft. north | 8 | 67 | 1,356 | 100 | 27 38 |
| " | W. | Queen | 91 ft. north | 16 | 91 | 3,534 | 200 | 62 92 |
| Tate | N. | Water | Beachell | 4 | 504 | 5,392 | 200 | 92 61 |
| Vine | W. | Eastern | 306 ft. south | 4 | 306 | 3,280 | 100 | 55 32 |
| Wyatt | B. | River | Sumach | 4 | 1,179 | 12,607 | 400 | 230 23 |

* Not laid in front of Dr. Allen's property, Nos. 719 to 725, 57 feet.

+ Not laid in front of Mr. Wright's property, No. 1195, 37 feet.

Not laid in front of Mr. Stone's property, Nos. 1225 to 1227, 53 feet.

Not laid in front of Mr. Davies' property, Nos. 1301 to 1305, 43 feet.

Not laid in front of Mr. Ashton's property, 12 feet.

DISTRICT NO. 2.

| Street. | Side. | From | To | Width (feet.) | Length (feet.) | Lumber (feet B. M.) | Nails (lbs.) | Total Cost. |
|------------------|--------------|-----------------------------|--|-----------------|----------------|------------------------|--------------|----------------|
| Aberdeen .. | N.. | Ontario | 276 ft. east | 4 | 276 | 3,118 | 100 | \$ c. 91 78 |
| | | | | | Cedar | posts ... | 3 | |
| | | | | | | Spikes | 20 | |
| Amelia | N.. | Sackville | Sumach | 6 | 667 | 10,674 | 250 | 207 11 |
| Berkeley | E.. | Gerrard | 130 ft. north | 5 $\frac{1}{3}$ | 130 | 1,994 | 75 | 43 80 |
| Bowman | E.. | Carlton | North end | 5 $\frac{2}{3}$ | 240 | 3,520 | 100 | 83 10 |
| Bright | B.. | King | Queen | 4 | 1,033 | 11,216 | 300 | 180 66 |
| Duchess | N.. | Berkeley | Parliament | 6 | 322 | 5,274 | 125 | 87 94 |
| | | | | | | Spikes | 10 | |
| Eastern | N.. | Sumach | Sackville | 6 | 447 | 7,248 | 150 | 166 23 |
| | | | | | Curbing | 573 | | |
| | | | | | | Spikes | 10 | |
| Elm & Beau { | { N. & W. | { Glen | South side of Mr. Jameson's prop'y. | 5 $\frac{1}{3}$ | 490 | 7,187 | 200 | 132 14 |
| *Front | S.. | Trinity | Cherry | 6 | 626 | 9,824 | 250 | 164 92 |
| Frederick | E.. | King | Duke | 5 $\frac{1}{3}$ | 276 | 4,119 | 125 | 65 45 |
| | | | | | | Spikes | 5 | |
| Front | S.. | Berkeley | Princess | 6 | 698 | 11,732 | 300 | 206 57 |
| | | | | | | Spikes | 35 | |
| Front | N.. | Parliament | Berkeley | 6 | 333 | 5,552 | 150 | 100 14 |
| | | | | | | Spikes | 20 | |
| †Gifford | B.. | Carlton | Spruce | 6 | 836 | 12,736 | 350 | 274 34 |
| ‡George | W.. | Front | King | 10 | 287 | 7,087 | 175 | 116 40 |
| | | | | | | Spikes | 5 | |
| " | E.. | Duke | Duchess | 6 | 436 | 6,356 | 175 | 114 36 |
| | | | | | | Spikes | 5 | |
| Gerrard | N.. | Parliament | Sackville | 6 | 786 | 12,702 | 300 | 208 34 |
| | | | | | | Spikes | 10 | |
| Huntley | W.. | Elm | South Drive | 4 | 323 | 6,779 | 200 | 121 43 |
| | | | | | | Spikes | 10 | |
| Howard | N.. | Glen | Parliament | 6 | 1,072 | 17,788 | 450 | 321 46 |
| | | | | | | Spikes | 50 | |
| " | S.. | Ontario | " | 6 | 670 | 10,792 | 250 | 179 99 |
| | | | | | | Spikes | 5 | |
| Ontario | W.. | Howard | Wellesley | 6 | 1,355 | 21,680 | 500 | 361 48 |
| " | W.. | Wilton | 234 ft. north | 6 | 252 | 4,207 | 100 | 70 50 |
| | | | | | | Spikes | 10 | |
| " | W.. | Carlton | 321 ft. north | 5 $\frac{1}{3}$ | 323 | 4,780 | 150 | 77 84 |
| | | | | | | Spikes | 5 | |
| § " | E.. | Howard | Wellesley | 5 $\frac{1}{3}$ | 1,346 | 19,022 | 550 | 393 73 |
| " | E.. | Winchester | " | 5 $\frac{1}{3}$ | 835 | 11,670 | 300 | 219 17 |
| Parliament | E.. | 155 ft. n. of St. David. | 105 ft. further north. | 8 | 105 | 2,240 | 75 | 39 87 |
| " | W.. | 40 ft. n. of Prospect. | Wellesley | 6 | 315 | 5,040 | 125 | 79 97 |
| Poulette | E.. | Sydenham | 240 ft. north | 4 | 240 | 2,560 | 100 | 41 93 |
| Princess | W.. | Esplanade | Front | 5 $\frac{1}{3}$ | 472 | 6,987 | 200 | 109 44 |
| | | | | | | Spikes | 5 | |

* Not laid in front of G. W. Gooderham's property, 12 feet.

† Not laid at asphalted lane entrances, 40 feet.

‡ Not laid in front of No. 46, 12 feet.

§ Not laid at lanes, 49 feet.

|| Not laid at lanes, 41 feet.

DISTRICT NO. 2—Continued.

| Street. | Side. | From | To | Width (feet.) | Length (feet.) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|--------------|-------------|----------------------------|---------------------------|---------------|----------------|----------------------------------|--------------|----------------|
| Parliament.. | E.. | Front..... | 87 ft. north..... | 6 | 107 | 1,902 Spikes | 50 15 | \$ c. 32 66 |
| Queen..... | N.. | Sackville..... | 339 ft. west..... | 8 | 356 | 7,596 | 200 | 151 73 |
| St. James .. | N.. | Ontario | Rose | 5½ | 303 | 4,444 | 125 | 73 15 |
| Sackville .. | E.. | Winchester .. | Carlton | 6 | 496 | 8,158 Spikes | 175 10 | 128 09 |
| " .. | E.. | St. Davids .. | 62 ft. south | 6 | 79 | 1,264 | 50 | 21 74 |
| " .. | W.. | " | Wilton | 6 | 445 | 7,216 Spikes | 200 5 | 117 83 |
| " .. | W.. | Amelia | Wellesley | 6 | 312 | 5,114 Spikes | 100 5 | 82 45 |
| Salisbury... | N.. | Sackville..... | East end | 6 | 483 | 7,800 Spikes | 200 5 | 139 07 |
| " .. | S .. | " | East end | 4 | 320 | 3,468 | 100 | 56 46 |
| South Dr. { | N & W | { East limit of No. 34. | North limit of No. 52. | 4 | 281 | 2,998 | 100 | 60 36 |
| Sydenham .. | N.. | Parliament.... | Sumach | 6 | 1,433 | 23,384 Spikes | 600 20 | 368 38 |
| Sackville .. | E.. | Winchester .. | Salisbury | 6 | 235 | 3,760 | 150 | 71 03 |
| " .. | W.. | Oak | Gerrard | 6 | 439 | 7,394 Spikes | 200 35 | 262 27 |
| | | | | | | Curbing 1,552 Cedar posts led | | |
| Spruce | N.. | Gifford | 139 ft. east | 6 | 151 | 2,252 | 75 | 41 69 |
| Salisbury... | S .. | Sackville..... | East end | 4 | 320 | 3,468 | 100 | 56 46 |
| Taylor | S .. | Sumach | 105 ft. west..... | 4 | 107 | 1,140 | 50 | 20 16 |
| Wellesley .. | S .. | Parliament.... | Sumach | 6 | 1,445 | 23,020 | 550 | 517 46 |
| " .. | N.. | " | " | 6 | 1,400 | 22,192 Spikes | 600 20 | 492 95 |
| " .. | S .. | Sherbourne .. | Bleeker | 6 | 212 | 3,394 | 75 | 56 16 |
| Wilton | N.. | " | Seaton | 6 | 373 | 6,024 Spikes | 150 5 | 99 05 |
| Winchester. | S .. | Sackville..... | Sumach | 6 | 651 | 10,509 Spikes | 275 5 | 228 21 |

DISTRICT NO. 3.

| | | | | | | | | |
|--------------|------|---------------------------|--------------------|----|-----|--------|-----|--------|
| Albert | N.. | James | Chestnut | 6 | 896 | 14,306 | 350 | 221 13 |
| " | S .. | Teraulay | " | 6 | 527 | 8,432 | 200 | 140 36 |
| Alexander .. | S .. | 83 feet east of Yonge. | Church..... | 6 | 860 | 13,760 | 350 | 204 88 |
| Avenue Pl. . | S .. | Avenue Rd .. | Hazelton | 6 | 452 | 7,232 | 200 | 118 71 |
| Birch | S .. | Yonge | Gange | 5½ | 402 | 5,896 | 200 | 103 14 |
| Bismarck... | N.. | Park Rd..... | East end | 4 | 501 | 5,344 | 175 | 80 90 |
| Blackmore L. | N.. | Davenport .. | " | 4 | 201 | 2,144 | 60 | 33 36 |
| Bond | W.. | Wilton | Gould | 6 | 602 | 9,632 | 250 | 312 15 |
| Breadalbane | S .. | Surrey | 154 ft. east | 6 | 154 | 2,792 | 60 | 59 32 |
| Belmont .. | N.. | Yonge | 361 ft. west..... | 4 | 361 | 3,851 | 100 | 58 81 |
| Bloor | S .. | North | 82 ft. east | 8 | 95 | 2,028 | 55 | 29 84 |
| †Bond | E.. | Shuter | Gould..... | 6 | 988 | 15,808 | 400 | 243 42 |
| Belmont.... | S .. | Yonge | McMurrich..... | 5½ | 369 | 5,412 | 150 | 123 89 |

* Not laid at asphalt lane entrance, 9½ feet.

† Not laid in front of Holy Blossom Synagogue, 69 feet; and opposite Congregational Church, 102 feet.

DISTRICT NO. 3—Continued.

| Street. | Side. | From | To | Width (feet.) | Length (feet.) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|----------------|-------|------------------------------|-------------------------|-----------------|----------------|-----------------------|--------------|-------------|
| Bismarek... | N.. | Yonge | Park Rd | 4 | 652 | 6,955 | 200 | \$ 171 40 |
| Chippewa .. | E.. | Lake Shore.... | 1,093 ft. north | 6 | 1,093 | 19,926 | 800 | 444 56 |
| | | | | | Board s | 344 | | |
| Commercial. | N.. | Jarvis | Francis | 4 | 126 | 1,344 | 50 | 21 75 |
| *Cottingham | N.. | Gange | 473 ft. west | 5 $\frac{1}{3}$ | 463 | 6,791 | 200 | 113 02 |
| Charles | S.. | Church | 388 ft. west | 6 | 388 | 6,208 | 175 | 106 57 |
| Chestnut .. | E.. | Albert | Agnes | 6 | 972 | 15,552 | 400 | 239 70 |
| " | W.. | Christopher .. | Chestnut Pl. | 6 | 441 | 7,056 | 175 | 106 40 |
| " | E.. | Queen | Albert | 6 | 390 | 6,240 | 150 | 103 48 |
| Christopher. | B.. | Chestnut | University | 4 | 911 | 9,718 | 350 | 149 66 |
| Davenport.. | S.. | Hazelton | 65 ft. west | 4 | 65 | 694 | 20 | 11 16 |
| Elizabeth .. | E.. | 101 ft. north of College. | Grenville | 6 | 120 | 1,920 | 50 | 29 28 |
| " | E.. | Gerrard | Hayter | 6 | 250 | 4,000 | 100 | 61 91 |
| Gloucester.. | N.. | Yonge | Church | 6 | 942 | 15,072 | 350 | 546 24 |
| Gange | E.. | Cottingham .. | Birch | 4 | 175 | 1,867 | 60 | 32 73 |
| " | W.. | " | " | 4 | 175 | 1,867 | 60 | 29 51 |
| Hayter | S.. | Mission | Teraulay | 6 | 160 | 2,560 | 60 | 39 84 |
| James | W.. | Albert | 92 ft. s. of Louisa... | 6 | 162 | 2,592 | 60 | 43 24 |
| " | E.. | " | Louisa | 6 | 246 | 3,936 | 100 | 61 91 |
| Lorne | E.. | Front | Esplanade | 6 | 430 | 7,216 | 200 | 114 02 |
| Millstone La | N.. | York | East end | 4 | 444 | 4,736 | 150 | 76 99 |
| Maitland .. | N.. | Church | Jarvis | 6 | 655 | 10,480 | 250 | 306 68 |
| North | W.. | St. Mary | Czar | 6 | 250 | 4,000 | 100 | 63 82 |
| Park Rd | E.. | Bismarek | Collier | 4 | 215 | 2,294 | 75 | 36 22 |
| " | W.. | Bloor | " | 6 | 560 | 8,960 | 230 | 149 40 |
| Price | N.. | Yonge | East end | 4 | 521 | 5,558 | 150 | 83 13 |
| Reynolds.. | E.. | Collier | 160 ft. north | 4 | 160 | 1,707 | 50 | 27 45 |
| Richmond .. | N.. | York | Simcoe | 6 | 657 | 10,512 | 250 | 160 22 |
| Roxborough | S.. | Yonge | Scarth Rd. | 4 | 2,031 | 21,664 | 600 | 336 38 |
| Reynolds .. | W.. | Collier | 127 ft. north | 4 | 127 | 1,355 | 50 | 21 74 |
| St. Joseph.. | S.. | " | St. Nicholas | 6 | 206 | 3,296 | 75 | 50 67 |
| † " | N.. | Chapel | The Park | 6 | 912 | 14,592 | 350 | 223 00 |
| St. Mary .. | N.. | St. Nicholas.. | Yonge | 6 | 207 | 3,312 | 75 | 50 95 |
| " | N.. | North | West end | 6 | 613 | 10,448 | 300 | 199 26 |
| St. Nicholas | E.. | St. Mary | Czar | 4 | 225 | 2,400 | 60 | 39 46 |
| Sarah | E.. | Belmont | 101 ft. south | 4 | 101 | 1,078 | 130 | 16 56 |
| Scott | C.. | Front | Esplanade | 10 | 332 | 8,540 | 225 | ..... |
| ‡ Shuter | S.. | Yonge | 118 ft. e. of Victoria. | 8 | 289 | 6,358 | 150 | 92 26 |
| Surrey | E.. | Grenville | Grosvenor | 5 $\frac{1}{3}$ | 298 | 4,371 | 125 | 131 34 |
| Sheppard .. | B.. | Richmond | Adelaide | 6 | 848 | 13,568 | 350 | 214 59 |
| §Teraulay .. | E.. | Albert | Agnes | 6 | 872 | 13,952 | 375 | 212 25 |
| Wilton | N.. | Church | Mutual | 6 | 319 | 5,104 | 150 | 78 15 |
| Yonge | E.. | Front | Esplanade | 12 | 258 | 7,360 | 300 | 132 92 |
| \|\| " ..... | W.. | Cottingham .. | North City limit.... | 6 | 1,262 | 20,192 | 500 | 315 88 |
| " | E.. | Roxborough... | Macpherson | 4 | 472 | 5,085 | 150 | 80 80 |
| " | E.. | Severn | Rosedale Ravine.... | 6 | 1,038 | 17,832 | 425 | 320 25 |

* Laid only from Gange Avenue westerly 451 feet to the easterly limit of Mr. Macdonald's property.

† Not laid in front of No. 40, 11 feet.

‡ Not laid in front of Massey Hall, 119 feet.

§ Not laid in front of Nos. 33 to 37, 60 feet.

|| Not laid at Can. Pac. Railway tracks, 21 feet

DISTRICT No. 4.

| Street. | Side. | From | To | Width (feet.) | Length (feet.) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|----------------|-------|-------------------|----------------------|-------------------------------|----------------|--------------------|--------------|--------------------|
| * Adelaide .. | S .. | Portland | 285 ft. east | 6 | 283 | 4,528 | 100 | \$ ⁶ c. |
| Augusta | W .. | St. Patrick | Nassau | 6 | 1,066 | 17,056 | 600 | 73 70 |
| " | W .. | Oxford | College | 6 | 422 | 6,752 | 200 | 115 33 |
| Baldwin | S .. | Augusta | Kensington | 4 | 335 | 3,573 | 150 | 62 56 |
| " | S .. | Beverley | McCaul | 6 | 630 | 10,080 | 300 | 234 35 |
| Bathurst | E .. | Farley | Adelaide | 6 | 446 | 7,136 | 200 | 174 29 |
| † " | W .. | Bloor | Folis | 6 | 1,643 | 25,968 | 800 | 423 59 |
| " | W .. | King | McDonald Sq | 8 | 335 | 7,147 | 200 | 122 24 |
| Bellevue | S .. | Denison | West end | 6 | 563 | 9,008 | 250 | 204 85 |
| Brant | W .. | King | Adelaide | 6 | 424 | 6,784 | 200 | 225 84 |
| | | | Plank for curb | | | 1,414 | | |
| | | | Spikes | | | | 50 | |
| | | | 33 posts. | | | | | |
| Brunswick .. | E .. | Lowther | 130 ft. north | 6 | 130 | 2,080 | 100 | 35 84 |
| Bloor | N .. | Bathurst | 171 ft. east | 12 | 187 | 5,735 | 200 | 93 02 |
| " | S .. | Major | Brunswick | 6 | 301 | 4,816 | 150 | 80 84 |
| Caer Howell .. | N .. | McCaul | University | 6 | 741 | 11,856 | 350 | 199 87 |
| ‡ Cecil | S .. | Huron | Henry | 4 | 273 | 2,912 | 100 | 54 65 |
| College | N .. | " | Road to Observatory | 6 | 1,065 | 17,040 | 500 | 286 82 |
| Cottingham .. | N .. | Avenue Rd .. | Rathnally | 6 | 651 | 10,416 | 300 | 172 36 |
| Charlotte .. | W .. | King | Adelaide | 4 | 449 | 4,853 | 150 | 162 60 |
| | | | Curbing plank | | | 1,737 | | |
| | | | Spikes | | | | 50 | |
| | | | 26 posts. | | | | | |
| § Davenport .. | N .. | Bedford | Can. Pac. Railway .. | 4 | 990 | 10,160 | 300 | 174 73 |
| Denison Sq. .. | N .. | Bellevue | Augusta | 5 ¹ / ₃ | 301 | 4,415 | 150 | 77 98 |
| Division | B .. | Spadina | Huron | 6 | 858 | 13,728 | 400 | 291 17 |
| Grange | S .. | " | Vanauley | 6 | 438 | 7,008 | 200 | 140 36 |
| " | S .. | Esther | " | 6 | 377 | 5,872 | 150 | 134 15 |
| " | N .. | Beverley | 328 ft. w. of McCaul | 6 | 297 | 4,752 | 150 | 81 90 |
| Hackney | W .. | Woolsley | Grange | 4 | 859 | 9,163 | 300 | 150 93 |
| Harbord | N .. | Robert | Spadina | 6 | 424 | 6,784 | 200 | 114 91 |
| Herrick | B .. | Lippincott | Borden | 4 | 656 | 6,997 | 250 | 120 72 |
| Huron | W .. | College | Cecil | 6 | 638 | 10,208 | 300 | 212 11 |
| Hackney | E .. | Woolsley | St. Patrick | 4 | 1,165 | 12,427 | 450 | 217 16 |
| John | W .. | Queen | 114 ft. south | 6 | 114 | 1,824 | 100 | 32 86 |
| " | E .. | " | Grange | 12 | 785 | 24,457 | 700 | 395 97 |
| " | E .. | King | Richmond | 6 | 858 | 13,728 | 400 | 223 85 |
| Kensington .. | W .. | St. Andrews .. | Baldwin | 6 | 223 | 3,568 | 100 | 103 19 |
| | | | Curbing | | | 744 | | |
| | | | Spikes | | | | 25 | |
| | | | 80 posts. | | | | | |
| ¶ King | S .. | Bathurst | Peter | 6 | 2,758 | 44,061 | 1,300 | 711 72 |
| Kensington .. | W .. | St. Patrick | 576 ft. north | 6 | 595 | 9,520 | 300 | 153 68 |
| Lennox | B .. | Lippincott | Bathurst | 4 | 574 | 6,123 | 300 | 225 20 |
| | | | Curbing | | | 1,834 | | |
| | | | Spikes | | | | 75 | |
| | | | 35 posts. | | | | | |

* Laid only to a point 273 feet east of Portland Street.

† Not laid in front of No. 822, 20 feet.

‡ Laid only from Henry to Beverley Street.

§ Not laid at culvert commencing 240 feet south of Dupont Street, 19 feet.

¶ Not laid in front of Mr. Williams property, 10 feet.

* Not laid in front of Mrs. Cooke's property (No. 633), 4 feet.

DISTRICT NO. 4—Continued.

| Street. | Side. | From | To | Width (feet) | Length (feet.) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|---------------|-------|-----------------|---------------------|-----------------|----------------|-----------------------|--------------|-------------|
| | | | | | | | | \$ c. |
| Larch | B.. | St. Patrick.... | Grange..... | 4 | 696 | 7,429 | 300 | 134 91 |
| *Mercer | S.. | John | Peter | 5 $\frac{1}{3}$ | 662 | 9,533 | 300 | 161 65 |
| Orde | N.. | Murray | University Avenue.. | 4 | 333 | 3,552 | 150 | 62 91 |
| Richmond.. | S.. | York | John..... | 6 | 1,582 | 25,312 | 700 | 404 09 |
| Robert | E.. | College | Willcock | 6 | 1,138 | 16,603 | 500 | 375 49 |
| Ross | B.. | Cecil | College..... | 5 $\frac{1}{3}$ | 1,200 | 17,600 | 500 | 377 82 |
| Russell | N.. | Spadina | Robert | 5 $\frac{1}{3}$ | 224 | 3,285 | 100 | 64 83 |
| St. Patrick.. | S.. | Bathurst | Denison..... | 6 | 870 | 13,920 | 400 | 219 88 |
| † “ | S.. | Denison..... | Esther | 6 | 231 | 2,080 | 50 | 36 37 |
| “ | N.. | “ | Spadina | 6 | 1,068 | 17,088 | 500 | 294 08 |
| St. Patrick S | E.. | Queen | Stephanie | 4 | 435 | 4,640 | 200 | 80 98 |
| Stewart | S.. | Bathurst | Portland | 5 $\frac{1}{3}$ | 678 | 9,944 | 300 | 231 21 |
| Widmer | W.. | King | Adelaide | 6 | 428 | 6,848 | 200 | 117 93 |
| ‡ William .. | E.. | Caer Howell... | Anderson | 6 | 540 | 8,640 | 250 | 150 27 |
| § William .. | E.. | Queen | “ | 6 | 1,301 | 20,816 | 600 | 339 42 |

DISTRICT NO. 5.

| | | | | | | | | |
|--------------|-----|------------------|-----------------------|-----------------|-------|--------|-----|--------|
| Argyle | N.. | Dundas | Givens | 5 $\frac{1}{3}$ | 1,302 | 4,430 | 150 | 105 58 |
| “ | N.. | Lisgar | Northcote | 6 | 564 | 9,200 | 200 | 253 69 |
| “ | N.. | Gladstone | “ | 6 | 287 | 4,622 | 100 | 75 29 |
| \|\| Arthur | N.. | Crawford | Ossington | 6 | 853 | 13,648 | 400 | 250 25 |
| “ | N.. | Bellwoods | Manning | 6 | 452 | 7,232 | 225 | 127 29 |
| Argyle | N.. | Dovercourt.. | Lisgar | 6 | 302 | 4,840 | 100 | 75 00 |
| “ | S.. | “ | Dundas | 6 | 960 | 15,368 | 475 | 322 70 |
| Arthur | N.. | Crawford | Bellwoods | 6 | 1,088 | 17,552 | 550 | 301 14 |
| Bloor | N.. | Bathurst | Markham | 6 | 284 | 4,544 | 150 | 80 28 |
| ¶ Brookfield | B.. | Queen | Humbert..... | 5 $\frac{1}{3}$ | 1,217 | 17,850 | 600 | 414 41 |
| Churchill... | S.. | Dovercourt .. | Lakeview | 5 $\frac{1}{3}$ | 460 | 6,747 | 225 | 133 74 |
| Defoe | S.. | Massey | Strachan | 5 $\frac{1}{3}$ | 151 | 2,215 | 75 | 40 38 |
| Dupont | N.. | Palmerston .. | Manning | 5 $\frac{1}{3}$ | 630 | 9,240 | 300 | 206 49 |
| Defoe | N.. | Massey | Strachan | 4 | 171 | 1,824 | 75 | 33 16 |
| Dewson | S.. | Delaware | Concord | 4 | 324 | 3,456 | 125 | 62 63 |
| **Doverc't | E.. | Bloor | Northumberland... | 5 $\frac{1}{3}$ | 329 | 4,823 | 150 | 87 15 |
| “ | W.. | “ | Shanly | 5 $\frac{1}{3}$ | 1,122 | 16,456 | 550 | 282 46 |
| ††Dundas .. | W.. | Queen | 364 ft. north..... | 6 | 264 | 4,224 | 175 | 74 11 |
| Euclid | E.. | College | 748 ft. south..... | 6 | 748 | 11,968 | 350 | 299 55 |
| †† “ | W.. | Queen | Robinson..... | 5 $\frac{1}{3}$ | 548 | 7,226 | 250 | 300 62 |
| “ | E.. | N. limit of 261. | North limit of 299 .. | 6 | 314 | 5,024 | 150 | 127 31 |
| “ | E.. | Robinson | Arthur | 6 | 1,234 | 20,544 | 625 | 507 22 |
| | | | Curbing | | | 1,410 | | |
| | | | Spikes | | | | 50 | |
| | | | 80 cedar posts. | | | | | |

* Not laid in front of Jas. Robertson premises, 12 feet.

† Laid only to a point 117 feet east of Denison Avenue.

‡ Not laid in front of R. Dinnis' property, 12 feet.

§ Not laid in front of property of Mr. Harris, Nos. 25 to 31, 150 feet; and in front of Mr. Gardner's property, No. 65, 55 feet.

|| Not laid from Givens Street easterly, 127 feet.

¶ Not laid from Queen Street northerly, opposite property of Mr. Vogan, 99 feet.

** Not laid in front of Nos. 767 and 769, 32 feet.

†† Except 100 feet in front of City Yard and Fire Hall.

‡‡ Not laid in front of No. 10, 40 $\frac{1}{2}$ feet.

DISTRICT NO. 5—Continued.

| Street. | Side. | From | To | Width (feet) | Length (feet) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|---------------------|-------|--|--------------------------|-----------------|---------------|--------------------|--------------|----------------------------|
| Euclid | E . . | Robinson | Queen | 5 $\frac{1}{3}$ | 564 | 7,520 | 275 | \$ ^{c.} 239 50 |
| Harrison . . . | N . . | Lakeview | Ossington | 5 $\frac{1}{3}$ | 475 | 6,967 | 225 | 126 59 |
| " | N . . | " | Dovercourt | 4 | 467 | 4,981 | 150 | 90 35 |
| Humbert . . . | S . . | Dundas | Brookfield | 4 | 280 | 2,987 | 100 | 54 05 |
| Harbord . . . | N . . | Clinton | Manning | 6 | 299 | 4,784 | 150 | 84 10 |
| " | S . . | Bathurst | Markham | 4 | 291 | 3,104 | 100 | 58 22 |
| King | N . . | Strachan | Walnut | 6 | 791 | 12,656 | 400 | 215 75 |
| " | S . . | Massey | Strachan | 6 | 160 | 2,560 | 75 | 45 37 |
| Lobb | S . . | Shaw | Crawford | 5 $\frac{1}{3}$ | 276 | 4,048 | 150 | 70 84 |
| Markham . . . | E . . | 100 ft. north of London. | 200 ft. further north | 4 | 200 | 2,133 | 75 | 38 19 |
| " | E . . | 316 ft. north of Arthur. | College | 6 | 1,186 | 18,976 | 550 | 444 69 |
| " | E . . | Queen | Robinson | 6 | 548 | 8,912 | 275 | 154 68 |
| Niagara | S . . | Tecumseth | Spikes | 6 | 475 | 7,600 | 25 | |
| North Mc-Donell Sq. | N . . | Bathurst | Wellington | 6 | 475 | 7,600 | 200 | 128 65 |
| Ossington . . . | N . . | Bathurst | 426 ft. west | 4 | 426 | 4,544 | 151 | 78 41 |
| Shaw | W . . | Dewson | Bloor | 5 $\frac{1}{3}$ | 1,832 | 26,870 | 900 | 565 46 |
| South Mc-Donell Sq. | W . . | Halton | Argyle | 6 | 496 | 7,936 | 225 | 134 44 |
| " | N . . | Bathurst, thence northerly 186 ft. thence easterly 203 ft. | 331 ft. west | 6 | 722 | 11,552 | 350 | 194 76 |
| Sully | W . . | Arthur | Crawford St. Ext'n. | 5 $\frac{1}{3}$ | 1,284 | 18,832 | 600 | 528 97 |
| Shannon . . . | S . . | Dovercourt | Ossington | 5 $\frac{1}{3}$ | 980 | 14,374 | 500 | 251 08 |
| *Shaw | E . . | Bellwood's Pk. . . | 182 ft. south | 6 | 161 | 2,576 | 75 | 44 75 |
| Shaw | E . . | 182 ft. south of Bellwood's Pk. | Queen | 6 | 1,353 | 21,648 | 650 | 501 27 |
| Tecumseth . . . | E . . | Niagara | Wellington | 6 | 230 | 3,680 | 100 | 66 67 |
| Turner | N . . | Tecumseth | West end | 4 | 420 | 4,480 | 150 | 78 12 |
| Wellington . . | N . . | Niagara | 235 ft. east of Stafford | 6 | 814 | 13,156 | 400 | 222 69 |
| " | N . . | Strachan | Stanley Park | 6 | 548 | 8,768 | 275 | 151 39 |

DISTRICT NO. 6.

| | | | | | | | | |
|-----------------|-------|------------------------------|----------------------------------|-----------------|-------|--------|-------|--------|
| Abell | W . . | Queen | 362 ft. south | 4 | 374 | 4,262 | 100 | 73 24 |
| Afton | N . . | Lisgar | Beaconsfield | 6 | 494 | 7,888 | 175 | 159 10 |
| Beaconsfield | B . . | Queen | Afton | 6 | 2,886 | 46,401 | 1,000 | 996 84 |
| College | N . . | St. Clarens | Sheridan | 5 $\frac{1}{3}$ | 1,060 | 15,712 | 300 | 245 05 |
| " | N . . | Rusholme | 130 ft. east | 4 | 156 | 1,664 | 50 | 28 37 |
| " | S . . | " | Dovercourt | 5 $\frac{1}{3}$ | 479 | 6,821 | 175 | 112 13 |
| Delaney Cr. . . | B . . | Brock | Wyndham | 4 | 1,716 | 18,258 | 600 | 331 17 |
| Dundas | S . . | " | St. Clarens | 6 | 690 | 11,434 | 250 | 177 56 |
| " | N . . | Dovercourt | Coolmine | 6 | 247 | 3,982 | 100 | 62 09 |
| Dufferin . . . | E . . | Bloor | 600 ft. south | 4 | 612 | 6,750 | 200 | 121 21 |
| " | E . . | College | Sylvan | 4 | 736 | 7,849 | 200 | 129 11 |
| " | W . . | " | Dundas | 5 $\frac{1}{3}$ | 1,017 | 15,302 | 350 | 279 02 |
| " | W . . | South side of house No. 390. | 206 ft. north | 4 | 206 | 2,208 | 206 | 24 53 |
| Edwin | W . . | North term. . . . | 210 ft. south of William Avenue. | 4 | 1,423 | 15,275 | 450 | 256 37 |
| Florence . . . | N . . | Brock | Sheridan | 4 | 514 | 5,544 | 200 | 92 06 |
| Franklin . . . | W . . | Royce | Irving | 4 | 649 | 6,960 | 200 | 114 18 |

* Not laid in front of No. 251, 21 feet.

DISTRICT NO. 6—Continued.

| Street. | Side. | From | To | Width (feet) | Length (feet) | Lumber (feet B.M.) | Nails (lbs.) | Total Cost. |
|----------------|-------|------------------|-----------------------|-----------------|---------------|-----------------------|--------------|-------------|
| | | | | | | | | \$ c. |
| Fraser | W.. | King | 213 ft. south | 5 $\frac{1}{3}$ | 233 | 3,403 | 75 | 63 77 |
| Gladstone .. | E.. | Argyle | 325 ft. north | 6 | 340 | 5,468 | 150 | 137 92 |
| " .. | W.. | Dundas | Trafalgar | 6 | 1,096 | 18,673 | 400 | 379 93 |
| " .. | W.. | Trafalgar | Waterloo | 6 | 303 | 4,833 | 100 | 74 02 |
| Howard Pk. N.. | N.. | Indian Rd. | 500 ft. east | 4 | 522 | 5,574 | 175 | 89 59 |
| King | N.. | Dufferin | Dunn | 5 $\frac{1}{3}$ | 1,579 | 23,093 | 700 | 362 10 |
| *Lisgar | E.. | Queen | Afton | 6 | 1,504 | 24,421 | 500 | 505 09 |
| Marshall | S.. | Brock | 135 ft. east | 4 | 150 | 1,600 | 50 | 25 27 |
| Marion | B.. | Fuller | Sorauren | 5 $\frac{1}{3}$ | 912 | 13,568 | 400 | 308 93 |
| Muir | N.. | Brock | Sheridan | 4 | 436 | 4,634 | 150 | 91 47 |
| Noble | N.. | " | 300 ft. east | 5 $\frac{1}{3}$ | 315 | 4,827 | 125 | 80 81 |
| Northcote .. | W.. | Argyle | Afton | 5 | 472 | 6,876 | 150 | 169 49 |
| " .. | E.. | Queen | " | 6 | 1,438 | 24,001 | 500 | 589 20 |
| Osler | E.. | Royce | North end | 4 | 974 | 10,409 | 300 | 178 26 |
| Roncesvalles | E.. | Dundas | Lucas | 4 | 2,258 | 24,610 | 700 | 427 14 |
| Royce | B.. | Perth | West end | 4 | 2,405 | 26,637 | 700 | 433 28 |
| Shirley | N.. | Brock | St. Clarens | 5 $\frac{1}{3}$ | 606 | 8,938 | 200 | 138 04 |
| Sheridan | E.. | Dundas | Fisher | 4 | 243 | 2,602 | 75 | 47 43 |
| St. Helens .. | W.. | " | South of Pearce | 4 | 1,592 | 17,907 | 500 | 313 61 |
| Trafalgar .. | B.. | Dufferin | Gladstone | 4 | 724 | 8,334 | 250 | 231 46 |
| †VanHorne .. | S.. | " | Westmoreland | 4 | 1,192 | 13,059 | 400 | 221 04 |
| Wright | S.. | Sorauren | 633 ft. west | 5 $\frac{1}{3}$ | 648 | 9,540 | 250 | 185 48 |
| West Lodge .. | W.. | North term. | 553 ft. south | 5 $\frac{1}{3}$ | 553 | 8,063 | 200 | 172 76 |
| Wyndham .. | S.. | Brock | St. Clarens | 4 | 557 | 5,961 | 150 | 98 43 |

* Laid only from Queen to a point 491 feet north of Argyle.

† Not laid in front of Gold Medal Man'g Co.'s property, 69 feet.

AN OUTLINE OF THE SYSTEM OF GARBAGE COLLECTION AND DISPOSITION
IN THE
CITY OF TORONTO

BY THE
STREET COMMISSIONER, MR. JOHN JONES.

At the request of Dr. Woodward, Chairman of the Committee on garbage disposition, in connection with this Convention, I beg to submit a few facts and details bearing on the Scavenging service as carried on in this City under my supervision.

I must explain at the outset, however, that I have little really new to add to the remarks I had the privilege of addressing to this Convention on the subject in question, at the meetings held in Cincinnati and Washington. All that I can hope to do therefore is to refresh your memories on what I said on the occasions I have just alluded to, while going a little more into the details of our system, and adding some facts relating to the expenditure, and other items connected with the service for the year ending December 31st., 1898.

I purpose also to give the Convention some information regarding the construction, method of operating, and expenditure involved in running the Crematories, where the garbage is consumed, which has been kindly furnished me by our esteemed City Commissioner, Mr. Coatsworth, under whose supervision they are conducted.

One important advantage I may point out, namely, the holding of the Convention here will afford the members an opportunity, as Dr. Woodward mentions in his letter, "of seeing how such work is accomplished in Toronto," adding also that "it will be of especial interest to learn the details." As head of the Department having control and supervision of this very important service, I extend a cordial invitation to the members, and any of their friends who may be visiting our City, to avail themselves of the opportunity to examine our system of conducting the Street Cleaning, Street Watering, Scavenging, and other branches of municipal work belonging to the Department. The City yards, stables, shops, docks, etc., will be open for your inspection at all times, and it will give me the greatest pleasure to afford the members and their friends any information they

may desire. In extending this invitation I know that I am voicing the sentiments of His Worship the Mayor, and Council, whose earnest wish, together with the citizens at large, is that your visit may be made as pleasant and profitable as possible.

The total area of the City, including the Bay and Island, is 13,976 acres, of which 10,500 acres are occupied. The mileage of the streets is 258.30, and of the lanes or alleys about 75 miles; the latter nearly all unpaved. Our population is about 230,000; the buildings number 41,500, of which 36,418 are dwellings, and the balance (5,082) business places.

For the operation of the Scavenging service we have divided the City into two districts, eastern and western, each being in charge of an inspector, who also has charge of the Street Cleaning and Street Watering Branches in his district. These districts are again laid out in sub-divisions, the number of which throughout the City is 29. Each of these sub-divisions is again divided into "beats" or routes, one cart or team waggon being allotted to each "beat"; from eight to twelve carts on an average being required for each sub-division. In order to ensure the proper performance of the work, and at the same time be able to locate any driver who may neglect his duty, or in other ways give cause for complaint, I have appointed one driver in each sub-division as head, or senior over the others, who is held responsible for the work being properly performed in his particular sub-division, and whose duty it is to investigate, and report on all complaints that may affect his staff of drivers, to the inspector of the district, by whom the facts are transmitted to the office. Moreover each cart bears a number, whereby any dereliction of duty can be more readily traced to the right party. The central portion of the City, which is the most thickly populated, and contains most of the business houses, is covered by the carts twice weekly; the remaining section, comprising the residential portion and outskirts, having a weekly collection only.

Employed in this work we have 120 horses, with carts and waggons of varying capacities, all the property of the City, built and kept in repair at our own shops. We have three stables for our horses—one in the western, one in the eastern and one in the northern section of the City.

Coming now to the statistics for last year, we removed altogether 115,679 loads, of which 35,085 loads were garbage, and the remainder, namely, 80,594 loads, were ashes. It may be well to explain here that the term garbage covers all substances that are combustible. Of pure garbage, that is, kitchen refuse, comprising animal and vegetable matter, the proportion of the aforesaid quantity removed last year was only about one-twelfth, or 8.33 per cent., the remainder consisting of brushwood and debris from lawns and gardens, clippings and waste ends of cloth, leather, etc., from factories and warehouses, waste paper, and odds and ends generally that will burn, all of which was disposed of at the crematories. It may be a matter of surprise to some of the gentlemen present that the percentage of pure garbage is so small. One reason is, practically all the refuse from our large hotels, and boarding houses is sold to persons maintaining piggeries outside the limits of the municipality, who also have men employed to collect the refuse when put out by householders for the scavengers to take away. Another reason is, many families make a practice regularly of burning their garbage in the kitchen stoves. Dead horses are removed by a private firm outside the City, at their own expense.

I am aware that the disposal of garbage, whether by reduction or incineration, is occupying a good deal of attention at present in large cities, both in the United States and in England, some of which have adopted the former process, and I recollect we had an interesting discussion on the subject when the Convention met in Washington last year. I am not prepared to pass a definite opinion on the question as to whether it is profitable for municipalities in general to adopt the reducing process for disposing of garbage, in preference to other methods, as local conditions vary in each case, and the process is not yet beyond the stage of experiment, but I have no hesitation in saying that it would not pay this City to adopt that system in preference to our present system of incineration, inasmuch as the amount of pure garbage we collect is so small.

As I have before mentioned, all combustible matter is sent to the Crematories, and the dry substances form valuable fuel for disposing of the moist collections. Ashes are used for filling-in purposes.

The collections are made from the various sections of the City on the same days of each week; printed cards containing information when the carts make their rounds, the regulations governing the

service, etc., being served on every householder. One of the most important of these regulations prohibits the storing of ashes and garbage in the same receptacle. Under a process of incineration such as we have, it is obvious that the combustible, and non-combustible substances must not be mixed, nor do we find it difficult to enforce this rule. I must confess, however, that we have more trouble in getting citizens to observe another very important regulation, namely, one which prohibits ashes and other substances from being thrown broadcast on lanes or alleys. We have, however, special men appointed to patrol the lanes for the purpose of compelling a proper observance of the rules and regulations governing the service, and we rarely find it necessary to do more than issue a warning to offenders. I may mention also that we have the co-operation of the Police towards this end.

The expenditure on the service last year was \$62,482.96, representing a cost per head of population of 27.17 cents, and per load removed of 54.01 cents. The expense of the work is largely increased by the long haul to the dumps where ashes are deposited, none of which are centrally located.

It might be supposed that the proportions of ashes and garbage, so called, would vary considerably in the winter and summer seasons, but we do not find a very great difference. For the information of the Convention, I have selected the returns from a district which is largely residential, for one week, each, in the months of January and July of the current year:

Average number of carts collecting—13.

Month of January—213 loads of ashes, and 80 loads of garbage removed.

“ “ July —102 “ “ “ 117 “ “ “

There is, however, much difference in the quality of the matter collected. In winter the ashes are pure and unmixed, but in summer there is a great proportion of sweeping of yards, and out-houses, and such like, all of which is useful for filling low lying lands.

The substances classed under the head of garbage vary but little one month with another.

TORONTO, September 30th, 1899.

JOHN JONES, ESQ.,

Street Commissioner.

DEAR SIR,—In compliance with your request I beg to submit the following statement:

About 1884 the garbage dumps in our City became a nuisance, and for five or six years the subject of erecting a crematory was under consideration by the City Corporation, plans of several kinds of crematories were obtained from England and the United States, all of which were found to be more expensive in their construction than the need of our City warranted, and from information obtained, it was discovered that many of them were offensive in their operation. Deputations from our City Council visited several cities of United States and Canada for the purpose of gathering information on the subject.

In the early part of 1891 the City Commissioner was ordered, by resolution of Council, to construct a crematory by day labor according to plans prepared by himself, a copy of which is herewith appended, having two furnaces each 22 feet long, 10 feet wide and 4 feet high to crown of arch, with iron smoke stack 3 feet in diameter and 100 feet high, capable of cremating 100 cubic yards per day of refuse and garbage. It was erected in the eastern part of the City.

The operation of the Eastern Crematory having proved satisfactory, the Commissioner was instructed, in the early part of 1893, to construct one of a similar kind in the western part of the City, which was completed and put into operation about the 1st of October the same year, the size of the furnaces being 28 feet long by 10 feet 4 in. wide, and 4 feet 3 in. high to crown of arch, with a brick smoke stack 120 feet high, having a cremating capacity of 120 cubic yards of refuse and garbage per day.

The following figures will show the cost of operation, material consumed, in the years named at the two crematories, we give these years in order to show the average:

In 1894, refuse and garbage cremated was 40,000 cubic yards, at a cost of $27\frac{1}{2}$ cents per yard.

In 1897, refuse and garbage cremated, was 54,000 cubic yards, at a cost of $22\frac{1}{2}$ cents per yard.

In 1899, garbage and refuse cremated to September 23rd, 33,000 cubic yards, at a cost of 22 cents per yard.

| | |
|--|-------------------|
| The eastern crematory cost for construction, in labor and material, for the furnaces and smoke stack | \$4,400 00 |
| The wooden building 48 x 98 ft. 22 ft. high and a bridge for approach from street and fencing lot..... | 3,000 00 |
| Making a total of..... | <u>\$7,400 00</u> |

| | |
|---|-------------------|
| The Western crematory cost for construction, being a little larger than the other, with a brick smoke stack, in labor and material, furnaces and chimney..... | \$4,914 00 |
| Building and planking roadway, etc..... | 2,600 00 |
| A total of..... | <u>\$7,514 00</u> |

All kinds of garbage, refuse, dead animals, rotten meat, fruit, fish, vegetables, etc., are cremated, cheap soft coal screenings are used as fuel, an average of about two ton per day at both institutions.

There are no offensive odors at any time, emanating from the crematories, they might be placed in the heart of the City and would be no nuisance.

So far as my knowledge goes, from information I have been able to gather for the past ten years on the disposal of garbage, I believe that cremation is the best and most sanitary method of treating it. So far as our City is concerned it is the only system suitable, as we get so much more refuse than garbage.

Yours respectfully,
E. COATSWORTH,
City Commissioner.

WATER WORKS.

REPORT FOR THE YEAR ENDING DECEMBER 31st, 1899.

CITY ENGINEER'S OFFICE,
Toronto, December 30th, 1899.

FINANCIAL.

The total expenditure for the year of the portion of the Water Works Department which is under the control of the City Engineer, amounted to \$165,483.54, divided as follows:

| | |
|--------------------|--------------|
| Maintenance | \$137,538 71 |
| Construction | 14,061 24 |
| Renewals. | 5,650 85 |
| Special Works..... | 8,232 74 |

The expenditure of the Revenue and Collection Branch, under the control of the City Treasurer, amounted to \$24,646.48.

| | |
|--|--------------|
| The revenue reported by the City Treasurer..... | \$452,296 09 |
| Interest and sinking fund on debenture debt..... | 222,400 00 |

DISTRIBUTION.

The total length of mains of all sizes laid during the year is 10,652 feet, divided as follows:

| |
|-----------------------------------|
| 2,553½ feet of 12-inch C.I. pipe. |
| 4,129½ " " 6 " " |
| 3,039 " " 4 " " |
| 14½ " " 3 " " |

In addition, 915½ feet of 2-inch wrought-iron service main has been laid and 92 feet of old Furniss cast-iron pipe taken up, leaving a total in use at the end of the year of 257,613 miles of water mains. For details as to number of valves and hydrants, I beg to refer to the report of the Deputy City Engineer.

SERVICES.

714 services were put in during the year.

LEAKS IN MAINS.

179 leaks have been repaired this year, the average cost per leak being \$5.09 $\frac{1}{3}$.

HIGH LEVEL PUMPING STATION.

I beg to call the attention of the Council to the necessity of increasing the capacity of this station. The rated capacity of each pump is about three and a half million gallons in twenty-four hours. Within the past eight years the rate of pumping has increased 53 per cent. During fires, the maximum obtainable pressure, with the pumps running 25 per cent. above their rated capacity, is 65 lbs., and it is absolutely necessary that this condition of affairs should be remedied.

A 12-inch main should be carried down on the south side of St. George Street, from Dupont Street to a connection with the 12-inch main on Bloor Street, and a new five million gallon engine installed at this station to enable the pressure to be maintained. At present, the whole of this district, comprising 3,500 acres and 80 miles of pipe, serving a population of 49,000 people, is supplied by the two 12-inch mains taken off the 20-inch delivery mains at the boundary of the Pumping Station Grounds.

MAIN PUMPING STATION GROUNDS.

The cost of coal used in pumping water with the Blake Engines, was \$3.80 per million gallons. This includes coal for banking fires, electric light engine, cellar pump, and syphoning out cellars of engine houses. The cost of pumping with the three low-duty engines was \$13.11 $\frac{1}{3}$ per million gallons, using anthracite coal at \$4.10 per ton, as against bituminous coal slack at \$2.28 $\frac{1}{2}$ per ton with the Blake Engine. The total cost of coal for the year for the three low-duty engines was \$5,688.87. The same work could have been done by high-duty engines at a cost for coal of \$1,468.59. This would have resulted in a saving of \$4,220.28 for the year.

TEMPERATURE.

The average temperature of the water supplied during the year was 44.5 deg. Fah., the highest occurring on the second of September, when it was 69 deg. Fah., the lowest being 34 deg. The highest monthly average was 55.7 deg. Fah., for August.

CONSUMPTION AND WASTE.

I beg to call attention to the remarks upon Consumption and Waste, contained in the attached report of the Deputy City Engineer, which I think deserve the serious consideration of the Council.

It will be seen that between 3 and 4 a.m., when there is practically no consumption, water was being pumped at the rate of 15,000,000 gallons per day, or 70 gallons per head of population. It is quite evident that nearly all of this 70 gallons of water is wasted. Mr. Fellowes is of the opinion that more than 60 per cent. of the water pumped is absolutely wasted. I consider that the only true way to prevent this waste is to greatly increase the use of meters, and a thorough inspection of all plumbing fixtures should also be made.

Respectfully submitted,

C. H. RUST,
City Engineer.

Report of Assistant Engineer in Charge of Water Works
Construction, Distribution and Maintenance.

CITY ENGINEER'S DEPT.,

Toronto, December 30th, 1899.

C. H. RUST, Esq.,

City Engineer.

DEAR SIR,—Herewith is submitted a report of the work done by this branch of the Department during the year ending 31st December, 1899 :

DISTRIBUTION.

The total length of cast iron mains of all sizes laid this year is 10,652 feet, consisting of :

| | |
|---------------------|-----------------------------|
| 2,553 $\frac{1}{2}$ | feet of 12-inch C. I. pipe. |
| 4,129 $\frac{1}{2}$ | “ 6 “ “ |
| 3,039 | “ 4 “ “ |
| 14 $\frac{1}{2}$ | “ 3 “ “ |

In addition, 915 $\frac{1}{2}$ feet of 2-in. wrought iron service main was laid, and 92 feet of old Furniss cast iron pipe taken up, leaving a total in use at the end of the year of 1,360,201 $\frac{3}{4}$ feet, or 257.613 miles of water mains.

STOP AND CHECK VALVES.

The number of stop valves placed in position this year, is as follows :

| | |
|----|----------------------|
| 7 | 12-inch stop valves. |
| 15 | 6 “ “ |
| 3 | 4 “ “ |
| 2 | 3 “ “ |

One 9-in. valve has been removed, leaving a total of 2,303 stop valves, of all sizes, in use, and 68 check valves.

HYDRANTS.

25 hydrants have been placed on the streets and 4 have been taken out, the total number now in use being 3,058. 27 2-way hydrants have been replaced by 3-way hydrants.

SERVICES.

714 services have been put in this year, of which 16 are on the Island.

LEAKS IN MAINS.

179 leaks in mains have been repaired, at a cost of \$911.74, exclusive of asphalt repairs, the average cost per leak being \$5.09 $\frac{1}{3}$. They were as follows :

| | | |
|----|----|---------------|
| 6 | on | 36-inch main. |
| 3 | on | 30 “ |
| 4 | on | 24 “ |
| 94 | on | 12 “ |
| 1 | on | 10 “ |
| 6 | on | 8 “ |
| 63 | on | 6 “ |
| 2 | on | 4 “ |

METER AND MACHINE SHOP.

Sixty new meters have been placed during the past year, and 636 have been taken off, tested and replaced, while 515 have been examined and repaired, without removal. In connection with this work, 71 new meter boxes have been put in, 15 have had new top frames placed on them, and 42 have been repaired. The greater number of Crown Meters, injured by sand in the water, have been repaired, tested and put into service again. A large quantity of work has, as usual, been performed for the Main and High Level Pumping Stations, and the Hydrant and Maintenance Departments.

VALVES AND HYDRANTS.

The following is a statement of the work performed by this Department during the year :

HYDRANTS.

| | |
|---|-----|
| New valves..... | 74 |
| New jointings..... | 63 |
| Hydrants replaced with repaired hydrants..... | 21 |
| Hydrants replaced with improved S. V. 2-way hydrants..... | 3 |
| Hydrants replaced with improved S. V. 3-way hydrants..... | 21 |
| New chain rings ... | 49 |
| Chain rings repaired..... | 231 |
| New screws | 5 |
| New caps..... | 37 |
| Cap leathers..... | 379 |
| Nozzles caulked | 183 |
| Hydrants cleaned, repaired, tested and painted..... | 31 |

| | |
|---|--------|
| Hydrants jacketed and tested complete..... | 10 |
| Hydrants set with bar and chain..... | 21 |
| 4-way hydrants drilled, tapped and plugged..... | 17 |
| 4-way hydrants, detail work gone over, jacketed and tested..... | 20 |
| 3-way hydrants, detail work gone over and tested..... | 50 |
| 3-way foot pipes tested..... | 50 |
| Hydrant jackets cut and replaced with short top..... | 31 |
| Hydrants cleaned and painted..... | 2,968 |
| Hydrants packed and oiled..... | 3,426 |
| Hydrants pumped, packed and oiled..... | 1,472 |
| Hydrants frozen, blown out, pumped, packed and oiled..... | 586 |
| Hydrants frozen, fired out, pumped, packed and oiled..... | 96 |
| Hydrant inspections..... | 46,777 |
| Hydrant jackets lowered..... | 785 |
| Hydrants thawed and pumped with boiler..... | 16 |
| Mains blown out..... | 378 |

VALVES TESTED.

| | | | | |
|--------|-------|-------|--------|-------|
| 12-in. | 6-in. | 4-in. | 2½-in. | 2-in. |
| 10 | 41 | 19 | 3 | 32 |

VALVES REPAIRED.

| | | | |
|--------|-------|-------|-------|
| 12-in. | 6-in. | 4-in. | 3-in. |
| 4 | 18 | 2 | 3 |

BRASS WORK TESTED.

| | |
|---------------------------------|-------|
| 1-in. single cocks..... | 139 |
| ¾-in. “..... | 457 |
| ⅝-in. “..... | 908 |
| ½-in. “..... | 1,112 |
| ⅜-in. “..... | 482 |
| 1 x ¾ x ¾-in. double cocks..... | 9 |
| ¾ x ⅝ x ⅝-in. “..... | 33 |
| ⅝ x ½ x ½-in. “..... | 578 |
| 1-in. couplings..... | 241 |
| ¾-in. “..... | 299 |
| ⅝-in. “..... | 641 |
| ½-in. “..... | 1,555 |
| ⅜-in. “..... | 606 |
| 1-in. screwed nipples..... | 224 |
| ¾-in. “..... | 192 |
| ⅝-in. “..... | 261 |
| ½-in. “..... | 432 |
| ¾-in. driving nipples..... | 184 |
| ⅝-in. “..... | 300 |
| ½-in. “..... | 365 |

RESERVOIR.

The grass has been cut and flowers maintained as usual, and the repairs to the Reservoir bank have been completed. It would be advisable to finish concreting the bottom of the Reservoir and also line the slopes to water line, with concrete, asphalt, or some other impervious material.

STABLES.

The expenditure on account of wages for foreman and drivers (five in all) was \$2,433.22.

Shoeing, Veterinary Surgeon, harness and wagon repairs, feed, etc., cost \$951.81.

STORE-HOUSE.

The stock has been fairly well kept up, but the Department has been greatly taxed to meet the large increase in materials required, owing to the revival of business and the increase in the building trade, as well as to the very large increase in local improvement works, both in pavements and sidewalks. The balances on hand have been checked and found correct.

ISLAND WATER WORKS PLANT.

Pumping at the Station on the Island commenced on May 2nd, and continued until October 16th, when the Station was closed. During this time a pressure of from 30 to 40 pounds was maintained in the mains, day and night. There were one or two small leaks at service connections, but none in the mains, which is very satisfactory, considering that they have nowhere over two feet of covering over them, which condition renders it necessary to empty them each fall, after the Station is closed.

OLD FILTERING BASIN.

This basin, which lies just east of the Island Pumping Station, was filled to zero level last year, and this year the filling was brought up to the general level of the surrounding ground, at a cost of \$1,313.54.

HIGH LEVEL STATION.

The pumps at this Station ran 16 hours a day during the year, all necessary repairs being made during the night, when they were shut down. In 1891, water was pumped at the rate of 3,100,000 gallons per day of 24 hours, this year the rate of pumping has been

5,200,000 gallons per 24 hours, or an increase of about 53 per cent. in eight years, or about $6\frac{2}{3}$ per cent. per annum. The rated capacity of each pump is 3,500,000 gallons in twenty-four hours, so that in order to keep up the pressure and supply, both pumps are required to be in operation. During fires, the maximum obtainable pressure, with the pumps running 25 per cent. above their rated capacity, is 65 pounds, the ordinary pressure on the main high level district being 40 to 42 pounds.

The 20-in. delivery main, which is reduced to 12 inches at the western boundary of the grounds, should be extended to Dupont Street, and along Dupont Street westerly to St. George Street, where it could be reduced to 12 inches, and a connection made with the existing 12-in. main. A 12-in. main should be carried down the east side of St. George Street, from Dupont Street to a connection with the 12-in. main on Bloor Street, and a new five-million gallon engine installed as soon as possible, to enable the pressure to be maintained. At present the whole district, comprising 3,500 acres and 80 miles of pipe serving a population of 49,000 people, is supplied by two 12-in. mains taken off the 20-in. delivery mains, at the boundary of the Pumping Station grounds.

MAIN PUMPING STATION.

No change has been made in the plant at this Station, which consists of two ten-million gallon high-duty Blake engines, one eight-million gallon Werthington engine, one four-million gallon Worthington engine, and one ten-million gallon Inglis & Hunter engine; the three latter being of the low-duty type.

The total cost of operating this Station for the year, was \$71,279.65; 7,823,348,217 imperial gallons of water were pumped. Of this quantity 7,390,620,793 gallons were pumped by the high-duty Blake engines, at a cost for coal of \$3.80 per million gallons. This includes coal for banking fires, electric light engine, cellar pump and syphoning out cellars of engine houses. The three low-duty engines pumped 433,727,424 imperial gallons, at a cost for coal of \$13.11 $\frac{1}{3}$ per million gallons, using Anthracite coal at \$4.10 per ton, as against Bituminous coal slack, at \$2.28 $\frac{1}{2}$ per ton, for Blake engines. The total cost of coal for the year for the old engines was \$5,688.87. The same work could have been done by high-duty engines, at a cost for coal of \$1,468.59, and a saving effected of \$4,220.28 for the year, or

sufficient to pay the interest and sinking fund on \$75,300. Comment is unnecessary. The Blake engines ran an average of 22 hours 57 minutes a day, or a total of 16,759 hours 35 minutes during the year. The two Worthington and Inglis & Hunter engines ran 2,044 hours 30 minutes during the year.

There is nothing further of importance to report, other than the difficulty of maintaining the pressure during low stages of the lake, owing to the want of sufficient conduit capacity.

Attention was drawn to this fact in last year's Annual Report.

TEMPERATURE.

The average temperature, taken at the City Hall tap, of the water supplied during the year, was 44.5 degrees Fah., the highest occurring on the 2nd September, when it was 69 degrees, and the lowest being 34 degrees for the first four months of the year, the highest monthly average being 55.7 degrees, for August. Further information will be found in the schedule relating to this matter.

CONSUMPTION AND WASTE.

The average number of gallons of water supplied daily during the year was 21,436,569, being 1,884,969 gallons per day more than was supplied in 1898, or an increase of $9 \frac{3}{5}$ per cent. The increase in 1898 over 1897 was $6 \frac{1}{5}$ per cent, while in 1897 the consumption was less than in 1896, by $\frac{1}{2}$ per cent. There is no doubt that by far the greater quantity of the water pumped is wasted.

This year, taking the population to be 215,000, which the Assessment Department think is a fair estimate, the consumption per head would average 99.7 imperial gallons. Of this the metered water amounts to 12.5 gallons per head. Between three and four o'clock a.m., when there is practically no consumption, water was being pumped at the rate of 15,000,000 gallons per day, or 70 gallons per head of population. Careful measurements of the discharge of the sewers, which were taken recently for sewage disposal purposes, show that the minimum quantity carried off by all the sewers, was at the rate of 15,214 gallons per day, showing a very close agreement with the rate at which water was being pumped between 3 a.m. and 4 a.m.

It is evident that the greater part, if not all, of this 70 gallons was waste water, leaving 17.2 as the quantity used for domestic

purposes. That this quantity is very close to that actually used, the experience of the following cities indicates: At Fall River, the quantity used for domestic purposes is found to be about 11.2; at Lawrence, 16.3; at Woonsocket, 14.1; at Worcester, 14; while Mr. Mansergh states that the average per head per day for domestic purposes for London, Birmingham, Manchester and Sheffield, is from 13 to 25 gallons. So that allowing 10 gallons per head for incurable waste (this being the quantity fixed upon by Mr. Freeman, in his report to the New York Water Board, as being the minimum quantity to which waste can be reduced), metered water at 12.5 gallons, and for domestic purposes, 17.2 gallons, would give a total of 39.7 gallons used for legitimate purposes and incurable waste, leaving 60 gallons as representing what may be called curable waste. In other words, 60 per cent. of the water pumped is absolutely wasted, without benefit of any kind being derived from it. It would, therefore, appear reasonable on economical grounds alone, to take some measures to reduce this waste.

CITY SAND PUMP.

This pump was fitted out and ready for work on April 17th. It was first sent to the mouth of the Bathurst Street sewer, to dredge the deposits at that point, the material being discharged to the south of the south crib-work forming the western entrance to the harbour. Owing to the spring gales and the heavy current caused by them, it was found impracticable to do the work with the pump, as the long length of discharge pipe was repeatedly broken. After about ten days' trial the attempt was abandoned, and the plant moved to Shield's Cut, at the eastern entrance to Ashbridge's Bay, where it was engaged until June 15th, dredging out the entrance, which had become silted up with sand during the winter. After this date, it was removed to the Island to dredge out the channel and fill up low ground, at which work it was employed until the close of the season. The cost of operation, for the entire season, was \$4,089.25, and the quantity of material excavated was 56,134 cubic yards. The plant ran the entire season without having to stop for repairs.

HARBOUR SQUARE CRIB-WORK.

A contract was let to W. J. Bryce & Co., for the construction of some 1,200 feet of crib-work, enclosing an area on the water front of nearly four acres. The whole of the work is above water level, the expenditure thereon, to December 31st, being \$25,361.

Yours faithfully,

C. L. FELLOWES,

Deputy Engineer.

REPORT OF ENGINEER IN CHARGE AT MAIN PUMPING STATION

MAIN PUMPING STATION,

Toronto, December 30th, 1899.

C. H. RUST, ESQ.,
City Engineer.

DEAR SIR,—I beg to submit to you my Annual Report for the year 1899.

As you will notice by the following, a considerable amount of repairs have been done, leaving the plant in a fairly good condition, but a large amount still remains to be done to further increase the efficiency of the plant.

Nos. 1 and 2 Worthington Pumps are in good working condition, and also Nos. 4 and 5 Blake Pumps.

No. 3 Engine will require a thorough overhauling. All the boilers are in good condition. The buildings, in general, want a thorough cleaning, in the way of painting and whitewashing.

I would most earnestly urge the installation of a new 10 or 15-million gallon pumping engine, with as little delay as possible. No. 1 old Worthington and Nos. 4 and 5 Blake High Duty engines have been running steadily, night and day, for some months, Nos. 4 and 5 being run at an increase of ten per cent. over their contract rate. Any break-down to either of these engines requires considerable time to repair, and would be a very serious matter, particularly as the boilers of Nos. 1 and 2 engines, which are very old, are liable to fail at any time.

The intake pipe to air pumps and condensers is giving some trouble, owing to the filthy condition of the water, caused by the filling in of the G. T. R. slips on the west side. The sooner this pipe is extended further out into the Bay, the better.

Attached hereto is a statement of repairs made to the plant at this Station during the year.

Respectfully submitted,

ALEX. McRAE,
Chief Engineer.

STATEMENT OF REPAIRS TO MAIN PUMPING STATION PLANT.

SUMMARY OF REPAIRS TO ENGINE NO. 1.

Trap from steam jacket opened up, repaired and placed in good working order.

Main pump examined, found a number of bad valves, spindles and seats; placed in good working order.

Air pumps examined, found in fairly good condition, steam pipe and jacket joints made, replaced where required.

SUMMARY OF REPAIRS TO ENGINE NO. 2.

Opened up main pumps, replaced several new valves, spindles and valve seats. Pumps left in good condition.

Examined air pumps, replaced several old valves and spindles with new ones.

Examined foot-valves, found in good order.

Made all new joints on main steam pipe and cross exhaust pipe, also all jacket joints. Put a patch on north-west corner low pressure cylinder jacket.

SUMMARY OF REPAIRS TO ENGINE NO. 3.

Opened up main pumps, put in sixteen new wooden valves.

Examined air pumps, found in good condition.

Overhauled boiler feed pump.

Packed plunger and rods.

Owing to No. 3 suction foot valve being cracked, and not being able to hold water for priming, we have placed on suction chamber two 2½-in. connections, so as to attach large hose from hydrant, which enables us to start quickly.

SUMMARY OF REPAIRS TO ENGINE NO. 4.

Examined both cylinders, high and low, and pistons; took off follower, replaced and adjusted.

Opened up receiver, put in five new tubes, plugged up seven, made joints on same.

Made joints on main steam pipes, under Engine Room floor; had main feed pump taken off, found it worn through on bottom, repaired same, had feed pipe of boiler pump taken off, put on one new tee with 1½-in. connection for low pressure trap to discharge into.

Put on one pair of 3-in. flanges, and two pieces of 3-in. pipe, 12 inches long.

Made connection between feed pipe and trap, used three ¾-in. Jenkins valves and one ¾-in. check valve, five feet ¾-in. pipe.

Made six joints on top of boilers.

Took out all valves, spindles, plates and springs, replaced all the best of old valves, and put in 252 new phosphor bronze springs, also 252 new spindles, put in all old plates, put new brass follower on south pump, found old one broken.

Examined air pump, put on one new stuffing box on steam valve, planed valve seats and valve, put new lubricator on auxiliary valve, made joints on steam chests and covers, put ¾-in. valve and drain pipe to steam chest, placed in good running order.

SUMMARY OF REPAIRS TO ENGINE NO. 5.

Opened up main pump, all valves, spindles and plates were taken out, replaced by new spindles and valves.

Had main rod, high pressure side, taken off, put in one new large brass in beam end of rod, bored out beam end of rod, had new large pin fitted, brasses re-babbited.

Had high pressure piston rod taken out, tightened piston on rod, put in new metallic packing, examined piston ring, replaced and adjusted, took off low pressure cylinder cover and follower of piston, examined same, replaced and adjusted.

Opened up receiver, one tube taken out, plugged up five, both ends, made new joints on same.

Examined coil in heater, made new joints on same.

Examined all valves and connections, reseated and renewed valves where required, examined low and high pressure traps, repaired same.

Examined jacket pump, reseated valves, packed all glands, made new joints on tank of jacket pump, examined boiler feed pump, put in larger plungers.

Packed all glands, reseated valves, renewed springs where required, placed in good running order.

SUMMARY OF REPAIRS TO FOUR BOILERS OF NO. 1 BATTERY.

Grate bars taken out, furnaces relined, replaced old bars.

Boilers washed out.

Asbestos blow-off cocks examined, replaced three new ones, repaired one.

SUMMARY OF REPAIRS TO FOUR BOILERS OF NO. 2 BATTERY.

Examined all four boilers, found in good condition.

Examined blow-off cocks, put in two new cocks and new blow-off drain.

Reseated all feed valves.

Made two steam pipe joints.

SUMMARY OF REPAIRS TO FIVE BOILERS OF NO. 3 BATTERY.

Made all new asbestos joints on flanges of blow-off pipes on boilers.

Found coil of feed-pipe in smoke box of No. 1 boiler very much corroded. It was taken out and replaced with one straight connection, made new joints on steam pipe to electric light engine.

SUMMARY OF REPAIRS TO FOUR BOILERS OF NO. 4 BATTERY.

Furnaces relined.

Grate bars repaired.

Seven new joints made on main steam pipe, put in new blow-off pipe, front of boiler, used 30 feet of 2-in. pipe, put down plates over blow-off pipe and cemented same.

SUMMARY OF REPAIRS TO FOUR BOILERS OF NO. 5 BATTERY.

Fire boxes relined.

Grate bars repaired.

Main throttle valves of boiler taken off.

Six extra $\frac{3}{4}$ -in. bolts put in valve covers.

Valves reseated.

Twenty new joints made on steam pipes, put in new feed pipe, and connections in front of boilers, also new plates over blow-off pipe in front of boilers.

Owing to Hawley Down-draft tubes giving out in boilers, it necessitates considerable repairs to furnaces, having had to replace thirty new tubes during the year.

Two boilers are washed out every week, which gives each boiler a thorough cleaning every four weeks.

SUMMARY OF REPAIRS TO ENGINES NOS. 4 AND 5.

On March 7th, gear on relief valve of No. 5 engine seized, taken down, and repaired. New wheel put on.

On April 10th, No. 5 engine was stopped to repair leaks on high pressure cylinder. Had all lagging taken off, tightened up all joints, made pattern for brass patch, patch made and put on. Had cylinder cover off, replaced, and had cylinder covered with mineral wool. Replaced lagging.

On April 21st, had Speneer's damper regulator removed to boiler room and attached to Nos. 4 and 5 main flue dampers.

On April 24th, stopped No. 4 engine, had main steam valve taken off for repairs.

On April 27th, stopped No. 5 engine to repair break on north-east end of beam, attached to air pump; also bored out piston valve cylinder, faced off auxiliary steam valve and valve seats. New rings made for piston rod. New joints made on steam chests, also bottom joints of cylinders. Shop work done by Northey Engine Co.

On May 10th, put in new key on front end of pillar block. Put in three new studs. Tightened up main engine foundation.

On May 18th, had all gauges, steam, vacuum, back pressure, water pressure, of both engines and boilers, also Edson recording gauge, repaired and tested by Mr. Oliver, expert gauge maker, employed by The James Morrison Co.

On May 22nd, had hole made in chimney outside, removed all soot in bottom of chimney. Had arch made and bricked up with one course of bricks so as to be convenient.

On June 30th, had high pressure cylinder cover taken off, drilled out broken stud in cylinder, replaced by a new one.

On October 3rd, had another break on No. 5, air pump beam; had new end welded on south-west corner of beam; also had new main steam valves placed on cylinders in order to change the motion of pumps, making vast improvement in working of same.

On October 14th, repaired cellar pump in new Engine House; had new piston and plunger rod put in; examined all valves in pump; packed all glands, left in perfect condition; had water syphons placed in position to keep water out of cellar, doing away with steam pump, leaving pump in position as an auxiliary.

On December 6th, put new piston rod in west cylinder of No. 5 air pump.

On December 7th, took down beam end of main rod, engine No. 4; put in large new bolt in link rod, high pressure side.

REPORT OF ENGINEER IN CHARGE OF HIGH LEVEL PUMPING STATION.

HIGH LEVEL PUMPING STATION,
Toronto, December 30th, 1900.

C. H. RUST, Esq.,
City Engineer.

DEAR SIR,—I beg leave to submit the Annual Report of this Station :

My appointment as Engineer in Charge was made on April 2nd, 1899. Up to the end of the year the only accident which occurred was the breaking of a plunger in No. 3 Jones' underfeed, which was replaced with a new one.

During the year four new 1-in. Jenkins' valves were put on the boilers, with flanges, so that joints could be made without taking down the steam pipe which formerly had to be done. Plungers and sleeves were put in No. 2 pumps. The inside and outside of Engine Room and Boiler Room were painted as well as the house. All ordinary running repairs were made and the plant is working satisfactorily.

Yours respectfully,

W. B. HALL,
Engineer in Charge.

APPENDIX "A."

ACCOUNTANT'S STATEMENT.

CITY ENGINEER'S OFFICE,
December 30th, 1899.

C. H. RUST, ESQ.,
City Engineer.

DEAR SIR, — I attach herewith Statement of Expenditure for the year ending December 31st, 1899, showing details of Contract Work, Material and Labor on General, Special and Local Improvement Work, marked Appendix "A"; also Statement of Expenditure of the Water Works Branch, with details of same to December 31st, 1899, marked Appendix "B," all of which is respectfully submitted.

Yours truly,

WM. McCARTNEY,
Accountant.

| For Abstract of Charges see page | ACCOUNTS. | \$ c. | | \$ c. | | \$ c. | |
|--|---------------------------------------|---------|----|-------|--|---------|----|
| | | | | | | | |
| | GENERAL WORK. | | | | | | |
| 81 | Bridges, repairs and maintenance. | 5,806 | 40 | | | | |
| 82 | Culvert cleaning | 4,649 | 28 | | | | |
| 83 | Engineering and expenses..... | 23,393 | 09 | | | | |
| 83 | General purpose | 18,710 | 19 | | | | |
| 86 | Roadways | 23,151 | 43 | | | | |
| 88 | Sidewalks | 13,957 | 59 | | | | |
| 89 | Snow cleaning off sidewalks..... | 2,761 | 20 | | | | |
| 89 | Street cleaning | 50,862 | 94 | | | | |
| 89 | Scavenging..... | 69,090 | 71 | | | | |
| 90 | Street watering..... | 21,249 | 79 | | | | |
| 91 | Stone and wooden crossings | 2,160 | 81 | | | | |
| 91 | “ “ kerbs..... | 294 | 43 | | | | |
| 91 | Private drains | 14,181 | 78 | | | | |
| | | 250,269 | 64 | | | | |
| | Less am't paid Treas. for p'te drains | 14,553 | 17 | | | 235,716 | 47 |
| | SPECIAL WORKS. | | | | | | |
| 92 | Ashbridge's Bay ditch | 165 | 03 | | | | |
| 91 | Cribbing Block "D" | 25,361 | 00 | | | | |
| 92 | Cherry Street bridge sidewalk.... | 187 | 51 | | | | |
| 92 | Dredging slips..... | 1,972 | 86 | | | | |
| 92 | Eastern Avenue cinder path..... | 265 | 29 | | | | |
| 92 | Filling lagoon rear Lakeside Home | 750 | 00 | | | | |
| 92 | Free bathing | 1,359 | 20 | | | | |
| 92 | Frederick Street siding..... | 166 | 60 | | | | |
| 92 | Island bicycle path..... | 274 | 86 | | | | |
| 92 | Island sidewalk (wharf to bridge). | 445 | 51 | | | | |
| 93 | Level crossings | 3,347 | 23 | | | | |
| 93 | Levelling Keating's Cut | 584 | 65 | | | | |
| 93 | Lakeshore Road sidewalk..... | 366 | 17 | | | | |
| 93 | Planking Island breakwater..... | 300 | 66 | | | | |
| 93 | Rentals | 605 | 00 | | | | |
| 93 | Rosedale Ravine Drive | 388 | 25 | | | | |
| 93 | Relaying stone setts, Yonge St ... | 241 | 96 | | | | |
| 94 | “ “ Wellington St. | 238 | 22 | | | | |
| 94 | Reconstruction of track allowances | 47,521 | 22 | | | | |
| 95 | Sewage disposal..... | 345 | 00 | | | | |
| 95 | Station Street asphalt pavement.. | 9,748 | 86 | | | | |
| 95 | Sidewalk on breakwater..... | 441 | 31 | | | | |
| 95 | Sand pump..... | 4,089 | 28 | | | | |
| 96 | Queen Street East culvert | 1,055 | 75 | | | | |
| | | | | | | 100,221 | 42 |
| | Carried forward..... | | | | | 335,937 | 89 |

| For Abstract of charges see page | ACCOUNTS. | \$ c. | | \$ c. | | \$ c. | |
|--|---|---------|----|---------|----|---------|----|
| | | | | | | | |
| | <i>Brought forward</i> | | | | | 335,937 | 89 |
| | BRIDGES, GRADINGS, OPENINGS, ETC. | | | | | | |
| 97 | Eastern Avenue bridge | 6,626 | 04 | | | | |
| 98 | Humber bridge | 3,887 | 62 | | | | |
| 97 | Queen Street bridge | 10,128 | 38 | | | | |
| 98 | Queen Street subway | 7,796 | 91 | | | | |
| 98 | York Street bridge | 51 | 00 | | | | |
| 98 | Dundas Street bridge track repairs | 567 | 54 | | | | |
| 96 | Railway pavements | | | | | 29,057 | 49 |
| | | | | | | 12,149 | 04 |
| | <i>Local Improvement Works:</i> | | | | | | |
| 98 | Sewers | | | 8,496 | 32 | | |
| 100 | Asphalt pavements | 261,160 | 93 | | | | |
| 107 | Brick " | 71,407 | 73 | | | | |
| 107 | Macadam " | 71,205 | 65 | | | | |
| 112 | Cedar block " | 34,305 | 31 | | | | |
| 116 | Gravel " | 3,617 | 02 | | | | |
| | | | | 441,783 | 64 | | |
| 123 | Brick sidewalks | 1,945 | 84 | | | | |
| 123 | Concrete sidewalks | 32,892 | 92 | | | | |
| 123 | Wooden " | 46,353 | 66 | | | | |
| | | | | 81,192 | 42 | | |
| 123 | Personal and departmental acc'ts. | | | | | 531,472 | 38 |
| | | | | | | 36,707 | 46 |
| | | | | | | 945,324 | 26 |

| DETAILS. | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|-------|----|----|----|
| BRIDGE REPAIRS, ETC. | | | | | | |
| <i>Cherry Street.</i> | | | | | | |
| 5,104 ft. lumber, \$78.92; blacksmithing, \$78.80..... | 157 | 72 | | | | |
| Laths, ladder, red and white globes..... | 6 | 52 | | | | |
| Labor | 1,131 | 40 | | | | |
| | | | 1,295 | 64 | | |
| <i>Winchester Street.</i> | | | | | | |
| 60 ft. lumber..... | | | 70 | | | |
| <i>Keating's Cut.</i> | | | | | | |
| Flanged wheels, etc., \$48; nails, \$3.50... | 51 | 50 | | | | |
| Blacksmithing, \$26, 2,670 ft. wood, \$42.29 | 68 | 29 | | | | |
| Labor | 294 | 94 | | | | |
| | | | 414 | 73 | | |
| <i>Brunswick Avenue.</i> | | | | | | |
| 3,700 ft. lumber | 58 | 50 | | | | |
| Labor | 33 | 34 | | | | |
| | | | 91 | 84 | | |
| <i>Humber Bridge.</i> | | | | | | |
| 1,173 ft. lumber, \$18.60; 300 ft. pine, \$8.25 | 26 | 85 | | | | |
| Blacksmithing..... | 1 | 40 | | | | |
| Labor | 144 | 51 | | | | |
| | | | 172 | 76 | | |
| <i>Shaw Street.</i> | | | | | | |
| 6,646 ft. lumber, \$108.73; spikes, \$11.40 | 120 | 13 | | | | |
| Labor | 83 | 45 | | | | |
| | | | 203 | 58 | | |
| <i>Strachan Avenue.</i> | | | | | | |
| 5,677 ft. lumber, \$86.27; spikes, \$14.25. | 100 | 52 | | | | |
| Coal oil, 54c.; 1 adze, 60c..... | 1 | 14 | | | | |
| Labor | 62 | 38 | | | | |
| | | | 164 | 04 | | |
| <i>Sherbourne Street.</i> | | | | | | |
| Screws, etc..... | | | 8 | 16 | | |
| <i>York Street.</i> | | | | | | |
| Labor | | | 35 | 03 | | |
| <i>Huntley Street.</i> | | | | | | |
| 500 ft. pine, \$8.50; 1 cord cedar blocks, \$5.10; patterns, \$12 | 25 | 60 | | | | |
| 1,887 lbs. castings, \$28.31; .50 toise macadam, \$5 | 33 | 31 | | | | |
| Carried forward..... | 58 | 91 | 2,386 | 48 | | |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|-------|----|--------|----|
| <i>Brought forward</i> | 58 | 91 | 2,386 | 48 | | |
| 84,783 ft. lumber, \$1,305.55; 600 laths, \$1.80..... | 1,307 | 35 | | | | |
| Cartage, \$1; dressing and sawing, \$7.38.. | 8 | 38 | | | | |
| Labor | 648 | 46 | | | | |
| | | | 2,023 | 10 | | |
| <i>Glen Road.</i> | | | | | | |
| 2,056 ft. lumber, \$33.92; 54 ft. oak, \$3.24 | 37 | 16 | | | | |
| Cartage, \$2; patterns, \$7.25..... | 9 | 25 | | | | |
| Labor | 725 | 89 | | | | |
| | | | 772 | 30 | | |
| <i>Crawford Street.</i> | | | | | | |
| 3,246 ft. lumber, \$47.59; 25 lbs. nails, 52c.; spikes, \$5.70..... | 53 | 81 | | | | |
| Labor | 55 | 25 | | | | |
| | | | 109 | 06 | | |
| <i>Carlaw Avenue.</i> | | | | | | |
| 2 brushes \$2; 350 lbs. paint, \$35..... | 37 | 00 | | | | |
| Labor | 47 | 00 | | | | |
| | | | 84 | 00 | | |
| <i>Gerrard Street.</i> | | | | | | |
| 400 lbs. nails, \$14; 9,220 ft. lumber, \$156.73..... | 170 | 73 | | | | |
| 160 lbs. castings, \$2.40; patterns, \$2; files, 36c..... | 4 | 76 | | | | |
| Labor | 112 | 06 | | | | |
| | | | 287 | 55 | | |
| <i>Castle Frank.</i> | | | | | | |
| Labor | | | 5 | 00 | | |
| Bridge tools..... | | | 138 | 91 | | |
| | | | | | 5,806 | 40 |
| CULVERT CLEANING. | | | | | | |
| 344 ft. lumber, \$1.72; 10 lbs. rivets, 80c. | 2 | 52 | | | | |
| Galvanized iron, \$3.50; bolts, \$1.35 | 4 | 85 | | | | |
| Labor | 4,080 | 50 | | | | |
| | | | 4,087 | 87 | | |
| HOUSE NUMBERING AND WEED CUTTING. | | | | | | |
| 625 house numbers, \$18.25; 23 signs, \$17.75; G. iron, \$5 | 41 | 00 | | | | |
| 200 lbs. white lead, \$10.60; 36 scythe stones, \$2.16..... | 12 | 76 | | | | |
| 9 scythe blades, \$4.50; 2 snathes, 70c..... | 5 | 20 | | | | |
| Labor | 502 | 45 | | | | |
| | | | 561 | 41 | | |
| | | | | | 4,649 | 28 |
| <i>Carried forward</i> | | | | | 10,455 | 68 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|-------|----|--------|----|
| <i>Brought forward</i> | | | | | 10,455 | 68 |
| ENGINEERING AND EXPENSES. | | | | | | |
| Board of horse, \$296.51; horseshoeing, \$7.05..... | 303 | 56 | | | | |
| Hire of Paymaster's buggy, \$92.50; hack hire, \$73 | 165 | 50 | | | | |
| Car tickets, \$550; stationery, \$143.15.... | 693 | 15 | | | | |
| Postage stamps and cards..... | 190 | 00 | | | | |
| Subscriptions, \$70.18; engineering books, \$48.50 | 118 | 68 | | | | |
| Veterinary services, \$17.25; horses, \$130. | 147 | 25 | | | | |
| Typewriting and photo supplies | 151 | 59 | | | | |
| Lithographing, \$566; office fittings, \$88.80 | 654 | 80 | | | | |
| Mounting maps, \$12; 1 cabinet, \$42.40.. | 54 | 40 | | | | |
| Messages, \$23.07; freight and duty, \$10.16 | 33 | 23 | | | | |
| Lantern exhibition at City Hall, \$10; photos, \$12 | 22 | 00 | | | | |
| Deputation and travelling expenses | 81 | 05 | | | | |
| Phone service, \$42.90; petty cash, \$60... | 102 | 90 | | | | |
| Buggy and parts, \$119.75; cartage, \$21.. | 140 | 75 | | | | |
| Boxes for moving, \$69.34; ink stamps, \$25 | 94 | 34 | | | | |
| Repairs, \$35.95; sundries, \$58.65 | 94 | 60 | | | | |
| Services re electric lights and bells..... | 57 | 80 | | | | |
| Sand paper, paint, putty, etc..... | 20 | 15 | | | | |
| Official salaries and sundry labor]..... | 20,267 | 34 | | | | |
| | | | | | 23,393 | 09 |
| GENERAL PURPOSE. | | | | | | |
| <i>Areas.</i> | | | | | | |
| Books and rolls..... | 19 | 25 | | | | |
| Labor | 601 | 00 | | | | |
| | | | | | 620 | 25 |
| <i>Albert Street Sewer.</i> | | | | | | |
| 4,000 bricks, \$28; labor, \$9.05..... | | | | | 37 | 05 |
| <i>Cleaning and Flushing.</i> | | | | | | |
| 60 ft. lumber, 85c.; 6 prs. boots, \$25.68. | 26 | 53 | | | | |
| 10 sets extension rings, \$28.60; horse keep, \$30..... | 58 | 60 | | | | |
| 6 files, 60c.; 1 gal. coal oil, 20c.... | | 80 | | | | |
| Labor | 2,840 | 14 | | | | |
| | | | | | 2,926 | 07 |
| <i>Dufferin Street Sewer.</i> | | | | | | |
| 600 bricks, \$45; 28 yds. gravel, \$19.72 .. | 64 | 72 | | | | |
| 9,002 ft. lumber, \$134.39; 50 bbls. cement, \$117.50..... | 251 | 89 | | | | |
| 400 ft. pipe, \$55.40; junctions, bends, etc., \$24.57 | 79 | 97 | | | | |
| <i>Carried forward</i> | 396 | 58 | 3,583 | 37 | 33,848 | 77 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|-------|----|--------|----|
| <i>Brought forward</i> | 396 | 58 | 3,583 | 37 | 33,848 | 77 |
| Coal oil, wick, pails, etc..... | 8 | 73 | | | | |
| Labor | 1,337 | 72 | | | | |
| | | | 1,743 | 03 | | |
| <i>James Street Sewer.</i> | | | | | | |
| 6,000 bricks | | | 42 | 00 | | |
| <i>Grading Lee Avenue.</i> | | | | | | |
| Labor | | | 158 | 51 | | |
| <i>Lansdowne Avenue Crossing.</i> | | | | | | |
| Labor | | | 35 | 00 | | |
| <i>Manholes and Culverts.</i> | | | | | | |
| 383 ft. 9-in pipe, \$53.14; 12 ft. 6-in. pipe, \$1.08..... | 54 | 22 | | | | |
| 76 ft. 24-in. pipe, \$87.40; castings, \$45 .. | 132 | 40 | | | | |
| 100 $\frac{1}{4}$ bbls. cement, \$244.21; 54,350 bricks, \$381.89 | 626 | 10 | | | | |
| 78 yds. sand, \$59.46; 17,680 ft. lumber, \$261.56 | 321 | 02 | | | | |
| Manhole tops and steps, \$53.35; 9 culvert traps, \$45..... | 98 | 35 | | | | |
| 16 yds. gravel, \$12.64; 40 bars iron, \$29.31 | 41 | 95 | | | | |
| 30 gals. coal oil, \$4.87; 428 ft. curb, \$5.78; horse feed, \$5.12 | 15 | 77 | | | | |
| May Street..... | 4 | 20 | | | | |
| Nails, spikes and sundry material | 22 | 12 | | | | |
| Labor | 1,753 | 68 | | | | |
| | | | 3,069 | 81 | | |
| <i>Public Lavatory.</i> | | | | | | |
| 10 lbs. sand, \$2; 3 brooms, \$1.05 | 3 | 05 | | | | |
| Soap, etc | 5 | 25 | | | | |
| Labor | 317 | 08 | | | | |
| | | | 325 | 38 | | |
| <i>Overcrowding Cars.</i> | | | | | | |
| Labor | | | 430 | 52 | | |
| <i>Sewer Repairs.</i> | | | | | | |
| 21 $\frac{3}{4}$ yds. sand, \$17.44; Standard sand, 1 bbl., \$12.50 | 29 | 94 | | | | |
| 22 ft. 15-in. pipe, \$36; 14 ft. 6 in. of 6-in. pipe, \$1.26..... | 37 | 26 | | | | |
| 12 ft. of 9-in. pipe, \$2.10; 24 ft. of 18-in. pipe, \$15.20; 2 ft. of 12-in., 50c. | 17 | 80 | | | | |
| 13,853 ft. lumber, \$224.64; 14 yds. gravel, \$10.56..... | 235 | 20 | | | | |
| <i>Carried forward.</i> | 320 | 20 | 9,387 | 62 | 33,848 | 77 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|-------|----|--------|----|
| <i>Brought forward</i> | 320 | 20 | 9,387 | 62 | 33,848 | 77 |
| 11,880 bricks, \$102.60; 4 culvert traps, \$23.55..... | 126 | 15 | | | | |
| Board of horse, \$297.44; rentals, \$154 .. | 451 | 44 | | | | |
| 2 lbs. castings, \$18; 150 ft. fire hose, \$157.50..... | 175 | 50 | | | | |
| 2 toise stone, \$14.80; 17 pairs boots, \$66.88..... | 81 | 68 | | | | |
| 63½ bbls. cement, \$152.56; coal, \$5.56... | 158 | 12 | | | | |
| Hauling, \$23; repairing pump, \$3.80 | 31 | 80 | | | | |
| Bends, junctions, etc..... | 50 | 70 | | | | |
| Sundry hardware | 38 | 72 | | | | |
| Customs entry on sand, \$1.46; ventilating pipe, \$30 | 31 | 46 | | | | |
| Horse feed and straw, \$18.40; nails, \$2.73 | 21 | 13 | | | | |
| 394 lbs. iron, \$9.85; 31 lbs. steel, \$3.72.. | 13 | 57 | | | | |
| Manhole steps and tops | 6 | 32 | | | | |
| Labor | 2,790 | 06 | | | | |
| | | | 4,296 | 85 | | |
| <i>Tools and Miscellaneous.</i> | | | | | | |
| 5,546 ft. lumber, \$101.48; freight and duty, \$20.90 | 122 | 38 | | | | |
| Tumblers, \$1.20; process paper, etc., \$241.50..... | 242 | 70 | | | | |
| Paint, \$6.60; coal oil, 74c.; tapes and re- pairs, \$18.75..... | 26 | 09 | | | | |
| Wire screen, \$14.85; 5 gals. boiled oil, \$3.75..... | 18 | 60 | | | | |
| Sharpening tools, 50c.; mounting maps, \$49 | 49 | 50 | | | | |
| Revising atlas, \$166.50; painting rods, \$9 | 175 | 50 | | | | |
| Patterns, \$28.70; furniture, \$413.28; 1 drill, \$3 | 444 | 98 | | | | |
| Photo supplies, \$29.14; board of horse, \$28 | 57 | 14 | | | | |
| G. I. Valleys, \$4.48; nails, \$7.90; type- writer, \$66.25..... | 78 | 63 | | | | |
| 500 copies of Engineers Report, \$341.70; castings, \$36 | 377 | 70 | | | | |
| Ferry fares, \$8; plans, \$140; rent of office, \$10 | 158 | 00 | | | | |
| Travelling expenses, \$2.95; 23 L. glass, \$5.60..... | 8 | 55 | | | | |
| Ink, \$36.70; stamps, \$5.25; drawer pulls, \$21 | 62 | 95 | | | | |
| Boat hire, \$6.25; phone service, \$35..... | 41 | 25 | | | | |
| Cement gauge, \$23.60; repairs, \$9.25.... | 32 | 85 | | | | |
| Sundry hardware | 26 | 11 | | | | |
| Varnish, stain and sundry material | 40 | 29 | | | | |
| Labor | 3,062 | 50 | | | | |
| | | | 5,025 | 72 | | |
| | | | | | 18,710 | 19 |
| <i>Carried forward</i> | | | | | 52,558 | 96 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|--------|----|--------|----|
| <i>Brought forward</i> | | | | | 52,558 | 96 |
| ROADWAYS. | | | | | | |
| <i>Macadam.</i> | | | | | | |
| 6,920 ft. lumber, \$87.05; 40 $\frac{1620}{1000}$ tons coal, \$172.09..... | 259 | 14 | | | | |
| 564 yds. gravel, \$443.39; 157 $\frac{1}{2}$ toise macadam, \$1,600.34..... | 2,043 | 73 | | | | |
| 155 toise stone, \$5.47; 8 yds. sand, \$6.96 | 12 | 43 | | | | |
| 125 lbs. nails, \$2.33; 936 ft. kerbing, \$12.64 | 14 | 97 | | | | |
| 2,097 lbs. castings, \$88.95; brass couplings, \$7.02..... | 95 | 97 | | | | |
| 65 lbs. waste, \$4.55; $\frac{5}{8}$ lbs. packing, \$1.84 | 6 | 39 | | | | |
| 400 lbs. babbitt, \$16; teaming, \$11..... | 27 | 00 | | | | |
| 19 gals. coal oil, \$2.66; 860 lbs. boiler purge, \$68.80..... | 71 | 46 | | | | |
| 4 steel plates, \$16.56; 45 ft. belting, \$26.46 | 43 | 02 | | | | |
| Steel screen, \$45.50; 653 lbs. steel, \$41.15 | 86 | 65 | | | | |
| 47 gals. oils, \$36.80; 26 ft. kerb stone, \$13.09..... | 49 | 89 | | | | |
| 2 tension springs, \$6; 9 bbls. cement, \$21.39..... | 27 | 39 | | | | |
| 46 ft. 6-in. pipe, \$5.36; travelling expenses, \$4.75..... | 10 | 11 | | | | |
| Sundry hardware, \$5.61; repairs, \$1.85... | 7 | 46 | | | | |
| 110 ft. sprocket chain, \$27.50; attachments, \$9.49..... | 36 | 99 | | | | |
| Iron, 68c.; freight, 98c..... | 1 | 66 | | | | |
| Labor..... | 5,203 | 29 | | | | |
| | 7,997 | 55 | | | | |
| Less amount paid Treasurer for use of roller | 1,089 | 30 | | | | |
| | | | 6,908 | 25 | | |
| <i>Cedar Block.</i> | | | | | | |
| 187 cords cedar blocks, \$915.45; 2 cords cedar posts, \$10..... | 925 | 45 | | | | |
| 135 yds. gravel, \$102.66; 3,012 ft. lumber, \$36.47..... | 139 | 13 | | | | |
| 109 lbs. nails, \$2.08; cedar curb, 32c.; 12 files, \$3.60..... | 6 | 00 | | | | |
| $\frac{1}{4}$ toise macadam, \$2.50; 5 lbs. spikes, 14c | 2 | 64 | | | | |
| Labor .. | 2,542 | 71 | | | | |
| | | | 3,615 | 93 | | |
| <i>Stone and Cobble.</i> | | | | | | |
| 3 toise macadam, \$2.77; 1 bbl. cement, \$2.35 | 5 | 12 | | | | |
| 155 ft. lumber, \$1.87; 6 yds. gravel, \$4.44 | 6 | 31 | | | | |
| Labor .. | 229 | 70 | | | | |
| | | | 241 | 13 | | |
| <i>Carried forward</i> | | | 10,765 | 31 | 52,558 | 96 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|--------|----|--------|----|
| <i>Brought forward</i> | | | 10,765 | 31 | 52,558 | 96 |
| <i>Repairs.</i> | | | | | | |
| 4,700 bricks, \$45.82; 8 ft. circular stone kerb, \$6 | 51 | 82 | | | | |
| 2 cords wood, \$5.30; 2 steel plates, \$7... | 12 | 30 | | | | |
| 8 bbls. cement, \$19.52; 92 yds. sand, \$62.64 | 82 | 16 | | | | |
| 8 $\frac{1}{2}$ $\frac{3}{4}$ $\frac{6}{8}$ tons coal, \$36.59; 4,145 ft. lumber, \$50.27..... | 86 | 86 | | | | |
| 10 gals. varnish, \$20; 128 yds. gravel, \$129 | 149 | 00 | | | | |
| Thermometers, \$16.50; 226 lbs. nails, \$7.68..... | 24 | 18 | | | | |
| Moving poles, \$22.53; repairing wheel, \$4.50..... | 27 | 03 | | | | |
| Sundry material | 22 | 17 | | | | |
| Labor | 5,972 | 91 | | | | |
| Deduction for overtime on Dunn Avenue refunded..... | 105 | 00 | | | | |
| | 6,533 | 43 | | | | |
| Credit, cost of Engineer's buggy..... | 91 | 75 | | | | |
| | | | 6,441 | 68 | | |
| <i>Tools and Miscellaneous.</i> | | | | | | |
| 2 cutter seats, \$19.50; repairs, \$40.90 ... | 60 | 40 | | | | |
| 100 ft. sprocket chain, \$23.84; wood, \$8.26 | 32 | 10 | | | | |
| Carriage parts, \$23.03; photo supplies, \$15.54..... | 43 | 57 | | | | |
| 9 lbs. packing, \$5.34; drawing tools, \$12.50 | 17 | 84 | | | | |
| Tyres, \$13; 8 circular saws, \$23.20 | 36 | 20 | | | | |
| Phone service, \$25; 4 $\frac{1}{2}$ doz. files, \$10.20. | 35 | 20 | | | | |
| 981 lbs. castings, \$20.28; 12 tapes, \$19.68 | 39 | 96 | | | | |
| 7,347 ft. lumber, \$84.83; 252 lbs. steel, \$45.71..... | 130 | 54 | | | | |
| 3 tons coal, \$10.50; moving safes, \$8.45.. | 18 | 95 | | | | |
| Levels, screws, rails, paint and sundry material | 79 | 87 | | | | |
| Labor | 170 | 48 | | | | |
| | | | 665 | 11 | | |
| <i>Street Intersections.</i> | | | | | | |
| 2 bbls. cement, \$4.70; 3 yds. sand, \$2.10. | 6 | 80 | | | | |
| 2,500 bricks, \$36.00; 24 yds. gravel, \$17.76 | 53 | 76 | | | | |
| 33 cords cedar blocks..... | 168 | 30 | | | | |
| Labor | 45 | 61 | | | | |
| | | | 274 | 47 | | |
| <i>Track Repairs.</i> | | | | | | |
| 125 bbls. cement, \$330.12; 40 ft. pipe, \$4.13..... | 334 | 25 | | | | |
| 65 $\frac{1}{2}$ yds. sand, \$50.61; 6 yds. gravel, \$5.06 | 55 | 67 | | | | |
| 1,850 bricks, \$28.16; 2 $\frac{1}{2}$ toise macadam, \$25 | 53 | 16 | | | | |
| <i>Carried forward</i> | 443 | 08 | 18,146 | 57 | 52,558 | 96 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|--------|----|--------|----|--------|----|
| <i>Brought forward</i> | 443 | 08 | 18,146 | 57 | 52,558 | 96 |
| Joints, bends, coal oil, etc. | 2 | 70 | | | | |
| Labor | 1,687 | 34 | | | | |
| | | | 2,133 | 12 | | |
| <i>Asphalt Repairs.</i> | | | | | | |
| 15½ ft. stone kerb, \$26.05; 6 yds. sand, \$5.22 | 31 | 27 | | | | |
| Repairs. | 2,155 | 52 | | | | |
| Labor | 435 | 20 | | | | |
| | | | 2,621 | 99 | | |
| <i>Culvert, Lake Shore Road.</i> | | | | | | |
| 3,968 ft. lumber, \$66.61; cartage, \$4.48.. | 71 | 09 | | | | |
| Labor | 53 | 66 | | | | |
| | | | 124 | 75 | | |
| <i>Grading Garden Avenue.</i> | | | | | | |
| Labor | | | 125 | 00 | | |
| | | | | | 23,151 | 43 |
| SIDEWALKS. | | | | | | |
| 211,477 ft. lumber, \$2,641.11; 10,068 lbs. nails, \$192.64 | 2,833 | 75 | | | | |
| Refund by Treasurer, \$20.00; Rent of yard, \$42.00 | 62 | 00 | | | | |
| Repairs to sundry concrete walks | 509 | 27 | | | | |
| Hauling, \$5.00; cor. iron, \$83.60; saws, \$68.00 | 156 | 60 | | | | |
| Rent of Phones, \$80.00; 7 pulleys, \$8.20. | 88 | 20 | | | | |
| Asphalt roofing, \$65.70; leather belts, \$12.05 | 77 | 75 | | | | |
| 3 globe valves, \$9.10; 9 $\frac{720}{1000}$ tons of coal, \$31.57 | 40 | 67 | | | | |
| 5,582 ft. cedar kerb, \$87.67; ferry tickets, \$15.00 | 102 | 67 | | | | |
| 6 yds. gravel, \$5.70; 680 lbs. jelly stone, \$20.40 | 26 | 10 | | | | |
| 90 ft. stone kerb, \$34.57; 1,000 bricks, \$7. | 41 | 57 | | | | |
| 17 bbls. cement, \$34.93; spikes, \$4.29... | 39 | 22 | | | | |
| Sundry hardware | 23 | 44 | | | | |
| Hubs, spokes, wheels and sundry material. | 20 | 94 | | | | |
| Labor | 12,107 | 98 | | | | |
| | 16,130 | 16 | | | | |
| Less amount paid Treasurer for sidewalk extensions and scrap. | 2,172 | 57 | | | | |
| | | | 13,957 | 59 | | |
| | | | | | 13,957 | 59 |
| <i>Carried forward</i> | | | | | 89,667 | 98 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|-----|--------|----|---------|----|
| <i>Brought forward</i> | | | | | 89,667 | 98 |
| SNOW CLEANING OFF SIDEWALKS. | | | | | | |
| 20 yds sand, \$12.70; books, \$27.20; shovels \$5.00..... | | 44 | 90 | | | |
| Snow cards, \$5.50; tape lines, \$10.50.... | | | 16 | 00 | | |
| Labor..... | 2,690 | 30 | | | | |
| | | | 2,761 | 20 | | |
| STREET CLEANING. | | | | | | |
| Horse feed and straw, \$1,591.92; 8 horses \$982.50..... | 2,574 | 42 | | | | |
| 23 gals. boiled oil, \$11.25; harness leather \$50.02..... | | 61 | 27 | | | |
| 2,800 bolts, \$16.89; harness, 17.54..... | | 34 | 43 | | | |
| Thread, 6.18; brass fibre, \$45.00..... | | 51 | 18 | | | |
| 202 lbs. habbitt, \$27.22; 920 lbs. nails \$15.31..... | | 42 | 53 | | | |
| Brass castings, \$24.15; brushes, 9.15.... | | 33 | 30 | | | |
| 510 ft. hose, 238.00; G. I. tubes, \$24.00. | 262 | 00 | | | | |
| 1 ventilating fan, \$33.50; rattan, \$61.20. | | 94 | 70 | | | |
| 1,449 lbs. castings, 21.63; 64 lbs. Japan, 6.50..... | | 28 | 13 | | | |
| 276 ft. basswood, \$11.34; cart spokes, \$22.00..... | | 34 | 34 | | | |
| Duck suits, \$125.00; 10 prs. boots, \$31.25 | 156 | 25 | | | | |
| Phone service, \$73.50; 80 yds. sand, \$69.60..... | | 143 | 10 | | | |
| 3,192 lbs. iron, 80.99; 55 gals. coal oil \$8.78 | | 89 | 77 | | | |
| 1,239 lbs. steel, \$54.31; 2,060 lbs. wire \$190.55..... | 244 | 86 | | | | |
| 8,690 ft. lumber, \$43.56; electric power at stables, \$9.58..... | | 53 | 14 | | | |
| 11 cords wood, \$43.25; veterinary services \$74.25..... | 117 | 50 | | | | |
| 30 ⁵²⁰ / ₉₀₀ tons coal, \$114.95; engine oil, \$12.18..... | | 127 | 13 | | | |
| Screws, nuts, fittings and sundry material | | 61 | 92 | | | |
| Sundry hardware, \$80.26; repairs, \$23.40 | | 103 | 66 | | | |
| Labor..... | 46,549 | 21 | | | | |
| | | | 50,862 | 94 | | |
| SCAVENGING. | | | | | | |
| 2,417 ft. lumber, \$28.21; 10 ¹⁷¹³ / ₂₀₀₀ tons coal, \$50.99..... | | 79 | 20 | | | |
| 7 cords wood, \$30.30; 590 lbs. nails, \$25.34 | | 55 | 64 | | | |
| 9,469 ¹ / ₂ lbs. iron, \$259.40; Axle Grease, \$20.80..... | | 280 | 20 | | | |
| 207 yds. duck, \$136.82; power at stables, \$19.28..... | | 156 | 10 | | | |
| Veterinary services, \$88.00; horse feed, \$5,370.14..... | 5,458 | 14 | | | | |
| Horses, \$656.25; harness trimmings etc., \$62.36..... | | 718 | 61 | | | |
| <i>Carried forward</i> | 6,747 | 89 | | | 143,292 | 12 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|-------|--------|-------|---------|----|
| <i>Brought forward</i> | 6,747 | 89 | ..... |  | 143,292 | 12 |
| 300 printed headings, \$6.50 ; asphalt and tar paper, \$32.25..... | 38 | 75 | | | | |
| 22 gals. boiled oil, \$16.65 ; phone services, \$14.50..... | 31 | 15 | | | | |
| Spikes, \$22.00 ; Brushes, \$13.18..... | 35 | 18 | | | | |
| White lead, lime, bolts, sundry material.. | 75 | 42 | | | | |
| Labor..... | 62,212 | 69 | | | | |
| | 69,141 | 08 | | | | |
| Less amount paid Treasurer for Board of Horse | 533 | 87 | | | | |
| | | | 68,607 | 21 | | |
| <i>Island Scavenging.</i> | | | | | | |
| Ferry fares, \$28.40 ; lime and buckets, \$9.00..... | 37 | 40 | | | | |
| Labor..... | 446 | 10 | | | | |
| | | | 483 | 50 | | |
| | | | | | 69,090 | 71 |
| STREET WATERING. | | | | | | |
| Phone service, \$85.50 ; harness trimmings, \$103.41..... | 188 | 91 | | | | |
| 1,067 lbs. nails, \$46.21 ; horse feed, \$4,018.58..... | 4,064 | 79 | | | | |
| Repairs, \$25.70 ; shingles, \$10.50..... | 36 | 20 | | | | |
| 569½ lbs. leather, \$170.63 ; 751 lbs. steel, \$26.29..... | 196 | 92 | | | | |
| 50 lbs. curled hair, \$17 ; 11,239 lbs. iron, \$283.17..... | 300 | 17 | | | | |
| 498½ ft. hose, \$255.50 ; veterinary ser- vices, \$102.50..... | 358 | 00 | | | | |
| Street sprinkling | 2,661 | 63 | | | | |
| 12 prs. hubs, \$21 ; 684 lbs. castings, \$13.37 | 34 | 37 | | | | |
| Electric power at stables, \$230.43 ; 5 horses, \$656.25 | 886 | 68 | | | | |
| 2,442 ft. lumber, \$62.69 ; harness, etc., \$27 | 89 | 69 | | | | |
| 15 ⁹²⁰ / ₂₀₀₀ tons coal, \$64.60 ; 338 lbs. paint, \$55.40..... | 129 | 00 | | | | |
| 186 brushes, \$38.44 ; 3 cords wood, \$12.65 | 51 | 09 | | | | |
| 72 expansion rings, \$10.08 ; 21 rasps, \$10.35..... | 20 | 43 | | | | |
| Paint and white lead, \$38.95 ; carriage bolts and spokes, \$41.90..... | 80 | 85 | | | | |
| Couplings, \$14.04 ; axle grease, \$13.22... | 27 | 26 | | | | |
| Sundry fittings and material | 80 | 20 | | | | |
| Labor | 12,052 | 60 | | | | |
| | | | | | 21,249 | 79 |
| <i>Carried forward</i>..... | ..... | ..... | ..... | ..... | 233,632 | 62 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|----|----|---------|----|
| <i>Brought forward</i> | | | | | 233,632 | 62 |
| STONE AND WOODEN CROSSINGS. | | | | | | |
| 58,036 ft. lumber, \$678.61 ; 24 lbs. nails, \$4.79 | 683 | 40 | | | | |
| 1,045 lbs. spikes, \$27.60 ; 42 yds. gravel, \$34.34 | 61 | 94 | | | | |
| 2 toise macadam, \$20 ; 10½ yds. sand, \$7.67 | 27 | 67 | | | | |
| 39½ bbls. cement, \$103.23 ; 2¾ cords cedar blocks, \$14.03 | 117 | 26 | | | | |
| Hack hire, \$4.50 ; coal oil, 18c | 4 | 68 | | | | |
| Labor | 1,265 | 86 | | | | |
| | | | | | 2,160 | 81 |
| STONE AND WOODEN KERBS. | | | | | | |
| 3,256 ft. lumber, \$41.36 ; 1 bbl. cement, \$2.35 | 43 | 71 | | | | |
| Repairs, \$6.50 ; rentals, \$28 | 34 | 50 | | | | |
| P. knives, \$5.28 ; 148 ft. oak, \$7.40 | 12 | 68 | | | | |
| Sundry materials | 9 | 26 | | | | |
| Labor | 194 | 28 | | | | |
| | | | | | 294 | 43 |
| PRIVATE DRAINS. | | | | | | |
| 7,141 ft. lumber, \$79.34 ; 17 lamps, \$6.60 | 86 | 94 | | | | |
| 1,213½ bbls. cement, \$308.86 ; 142 gals. coal oil, \$25.14 | 334 | 20 | | | | |
| 16,901 ft. 6-in. pipe, \$1,513.87 ; 1,528 ft. 9-in. pipe, \$225.50 | 1,739 | 37 | | | | |
| 16 ft. 4-in. pipe, \$1.56 ; 14 9-in. bends, \$9.65 | 11 | 21 | | | | |
| 53 ft. 6-in. bends, \$13.95 ; junctions, elbows, etc., \$8.80 | 22 | 75 | | | | |
| Asphalt repairs, \$75.43 ; sundry private drains, \$74.36 | 149 | 79 | | | | |
| 2 culvert traps, \$10 ; pails and wheel- barrows, \$17.45 | 27 | 45 | | | | |
| Lowering main, 34 Park Road | 19 | 99 | | | | |
| Treasurer's refund | 1,128 | 56 | | | | |
| Lamps, wick, globes and sundry material. | 17 | 65 | | | | |
| Labor | 10,643 | 87 | | | | |
| | | | | | 14,181 | 78 |
| | | | | | 250,269 | 64 |
| Less amount paid Treas. for sundry drains (Amount at credit of p. drain acc't \$371.39) | | | | | 14,553 | 17 |
| | | | | | 235,716 | 47 |
| SPECIAL WORKS. | | | | | | |
| <i>Cribbing Block "D."</i> | | | | | | |
| Dredging, \$60 ; 1 pair boots, \$3 | 63 | 00 | | | | |
| Inspection | 648 | 00 | | | | |
| Contract | 24,650 | 00 | | | | |
| | | | | | 25,361 | 00 |
| <i>Carried forward</i> | | | | | 261,077 | 47 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|----|----|---------|----|
| <i>Brought forward</i> | | | | | 261,077 | 47 |
| <i>Cherry Street Bridge Sidewalk.</i> | | | | | | |
| 11,889 ft. lumber, \$142.90 ; 400 lbs. nails, \$7.32 | 150 | 22 | | | | |
| Labor | 37 | 29 | | | 187 | 51 |
| <i>Dredging Slips.</i> | | | | | | |
| 8,500 yds. dredging | 660 | 00 | | | | |
| Contract | 1,209 | 36 | | | | |
| Labor | 103 | 50 | | | 1,972 | 86 |
| <i>Ashbridge's Bay Ditch.</i> | | | | | | |
| Labor | | | | | 165 | 03 |
| <i>Eastern Avenue Cinder Path.</i> | | | | | | |
| 443 ft. lumber | 5 | 29 | | | | |
| Labor | 260 | 00 | | | 265 | 29 |
| <i>Filling Lagoon Rear of Lakeside Home.</i> | | | | | | |
| Contract | | | | | 750 | 00 |
| <i>Free Bathing.</i> | | | | | | |
| 9,565 ft. lumber, \$113.73 ; nails, \$8.81... | 122 | 54 | | | | |
| 1 cord posts, \$6.84 ; rope, \$4.23 | 11 | 07 | | | | |
| Wharfage and dock services | 90 | 00 | | | | |
| Inspection of scow | 10 | 00 | | | | |
| Hire of row-boat, \$11 ; towing, \$7.50... | 18 | 50 | | | | |
| Use of steamer and ferry | 711 | 00 | | | | |
| Pails, axes, etc | 3 | 33 | | | | |
| Labor | 392 | 76 | | | 1,359 | 20 |
| <i>Frederick Street Siding.</i> | | | | | | |
| Rental | | | | | 166 | 60 |
| <i>Island Bicycle Path.</i> | | | | | | |
| 21,444 ft. lumber, \$260.50 ; nails, \$11.90. | 272 | 40 | | | | |
| $\frac{1}{4}$ cord posts | 2 | 46 | | | 274 | 86 |
| <i>Island Sidewalk (From Wharf to Bridge.)</i> | | | | | | |
| 30,869 ft. lumber, \$373.53 ; 700 lbs. nails, \$12.81 | 386 | 34 | | | | |
| Ferry fares | 8 | 00 | | | | |
| Labor | 51 | 17 | | | 445 | 51 |
| <i>Carried forward</i> | | | | | 266,664 | 33 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-----|----|-------|----|---------|----|
| <i>Brought forward</i> | | | | | 266,664 | 33 |
| LEVEL CROSSINGS. | | | | | | |
| <i>Grand Trunk Railway.</i> | | | | | | |
| Pape Avenue..... | 376 | 44 | | | | |
| Jones Avenue | 380 | 50 | | | | |
| Logan Avenue | 387 | 39 | | | | |
| Bloor Street | 287 | 69 | | | | |
| | | | 1,432 | 02 | | |
| <i>Canadian Pacific Railway.</i> | | | | | | |
| Avenue Road..... | 514 | 91 | | | | |
| Bathurst Street..... | 341 | 87 | | | | |
| Dufferin Street..... | 344 | 13 | | | | |
| | | | 1,200 | 91 | | |
| Dunn and Dowling Avenues | | | 714 | 30 | | |
| | | | | | 3,347 | 23 |
| LEVELLING AT KEATING'S CUT. | | | | | | |
| 280 ft. lumber | 3 | 33 | | | | |
| Labor | 581 | 32 | | | | |
| | | | | | 584 | 65 |
| LAKESHORE ROAD SIDEWALK. | | | | | | |
| Lumber, \$281.24 ; nails, \$11..... | 292 | 24 | | | | |
| Labor .. | 73 | 93 | | | | |
| | | | | | 366 | 17 |
| PLANKING ISLAND BREAKWATER. | | | | | | |
| Ferry fares..... | 2 | 00 | | | | |
| 19,200 ft. lumber, \$233.66 ; 70 lbs. nails, \$12.81..... | 246 | 47 | | | | |
| Labor | 42 | 19 | | | | |
| | | | 290 | 66 | | |
| PLANKING QUEEN'S WHARF. | | | | | | |
| Towing scow | | | 10 | 00 | | |
| | | | | | 300 | 66 |
| RENTALS. | | | | | | |
| Hamilton wharf | | | | | 605 | 00 |
| ROSEDALE RAVINE DRIVE. | | | | | | |
| Labor | | | | | 388 | 25 |
| RELAYING STONE SETTS. | | | | | | |
| <i>Yonge Street, King to Front.</i> | | | | | | |
| 14 gals. coal oil..... | 1 | 96 | | | | |
| Labor | 240 | 00 | | | | |
| | | | | | 241 | 96 |
| <i>Carried forward</i> | | | | | 272,498 | 25 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|-----|--------|---------|------------|
| <i>Brought forward</i> | | | | | 272,498 | 25 |
| <i>Wellington Street, Bay to York.</i> | | | | | | |
| Labor | | | | | 238 | 22 |
| RECONSTRUCTION OF TRACK ALLOWANCE. | | | | | | |
| <i>Queen Street, Bathurst to Niagara.</i> | | | | | | |
| Contract | | | 413 | 22 | | |
| <i>Queen Street, Niagara to Gladstone.</i> | | | | | | |
| $\frac{1}{2}$ yard sand | | 35 | | | | |
| Contract | 3,254 | 68 | | | | |
| Labor | 84 | 52 | | | | |
| | | | | 3,339 | 55 | |
| <i>Queen Street, Simcoe to Sherbourne.</i> | | | | | | |
| 200 ft. hose, \$58.56; 63 picks, \$58.56.... | 117 | 12 | | | | |
| 7.75 toise macadam, \$77.50; 10 sledges, \$15.90 | 93 | 40 | | | | |
| 602 $\frac{1}{2}$ bbls. cement, \$1,453.22; 20 crow-bars, \$37 | 1,490 | 22 | | | | |
| Repairs (tools), \$101.33; 939 yds. sand, \$563.64 | 664 | 97 | | | | |
| Scoria blocks (353,737) | 10,341 | 26 | | | | |
| 12 wheelbarrows, \$12; 11 pails, \$17.90 .. | 29 | 90 | | | | |
| Teaming, \$295.70; 11 steel wedges, \$48.12 | 343 | 82 | | | | |
| Use of Wells' lights | 33 | 35 | | | | |
| 25 yds. duck, \$22.25; 2 track gullies, \$9. | 31 | 25 | | | | |
| Tools and sundry material | 123 | 71 | | | | |
| Labor | 3,623 | 44 | | | | |
| Contract | 6,225 | 81 | | | | |
| | | | | 23,118 | 25 | |
| <i>Queen Street, Yonge to Bathurst.</i> | | | | | | |
| 245 yds. gravel | 220 | 50 | | | | |
| Contract | 1,929 | 56 | | | | |
| | | | | 2,150 | 06 | |
| <i>Queen Street, Yonge to River.</i> | | | | | | |
| 2,000 bricks, \$29; 4 yds. sand, \$3.48... | 32 | 48 | | | | |
| 2 bbls. cement | 4 | 70 | | | | |
| Labor | 57 | 84 | | | | |
| | | | | 95 | 02 | |
| <i>Yonge Street, Grenville to Bloor.</i> | | | | | | |
| Contract | 7,405 | 37 | | | | |
| Labor | 91 | 85 | | | | |
| | | | | 7,497 | 22 | |
| <i>Carried forward</i> | | | | 36,613 | 32 | 272,736 47 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 36,613 | 32 | 272,736 | 47 |
| <i>King Street, Sherbourne to River.</i> | | | | | | |
| Contract | 5,255 | 55 | | | | |
| Labor | 107 | 86 | | | | |
| | | | 5,363 | 41 | | |
| <i>Yonge Street, Davenport to C.P.R.</i> | | | | | | |
| Contract | 3,019 | 38 | | | | |
| Labor | 76 | 01 | | | | |
| | | | 3,095 | 39 | | |
| <i>King Street, Simcoe to Spadina.</i> | | | | | | |
| Contract | | | 843 | 53 | | |
| <i>Winchester Street, Parliament to Sumach.</i> | | | | | | |
| Contract | | | 25 | 35 | | |
| <i>Dundas Street, Queen to Arthur.</i> | | | | | | |
| Contract | | | 546 | 53 | | |
| <i>Yonge Street, King to Hayter.</i> | | | | | | |
| Contract | | | 1,033 | 69 | | |
| | | | | | 47,521 | 22 |
| SEWAGE DISPOSAL. | | | | | | |
| Deputation expenses to sundry American cities | | | | | 345 | 00 |
| STATION STREET ASPHALT PAVEMENT. | | | | | | |
| 2,000 bricks, \$14 ; 7 bbls. cement, \$16.45. | 30 | 45 | | | | |
| 70 ft. 9-in. pipe, \$10.50 ; 4 yds. sand, \$3.48 | 13 | 98 | | | | |
| Junctions, bends, etc. | 3 | 77 | | | | |
| Labor, \$134.20 ; inspection, \$135 | 269 | 20 | | | | |
| Contract | 9,431 | 46 | | | | |
| | | | | | 9,748 | 86 |
| SIDEWALK ON BREAKWATER. | | | | | | |
| Hire of scow, \$40 ; ferry tickets, \$7 | 47 | 00 | | | | |
| 23,820 ft. lumber, \$285.22 ; nails, 92c | 286 | 14 | | | | |
| 400 lbs. spikes | 9 | 96 | | | | |
| Labor | 98 | 21 | | | | |
| | | | | | 441 | 31 |
| SAND PUMP. | | | | | | |
| 10 ⁶⁴⁵ / ₂₀₀₀ tons coal, \$36.59 ; oils, \$155.74.. | 192 | 33 | | | | |
| Boilermaker's time | 46 | 80 | | | | |
| 4 cords wood, \$15.93 ; 36 ¹ / ₄ lbs. packing \$6.53. | 22 | 46 | | | | |
| Repairs, \$523.95 ; paint, \$35.40 | 559 | 35 | | | | |
| <i>Carried forward</i> | 820 | 94 | | | 330,792 | 86 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|-------|----|---------|----|
| <i>Brought forward</i> | 820 | 94 | ..... |  | 330,792 | 86 |
| Meat, groceries, ice and milk for dredge. | 375 | 17 | | | | |
| 6 sleeves, \$129.00 ; globe valve, \$7.50.... | 136 | 50 | | | | |
| 13 lbs. rubbersoling, \$6.50 ; 2 gals. varnish, \$6.40..... | 12 | 90 | | | | |
| Government inspection | 41 | 24 | | | | |
| Rubber goods, \$20.28 ; brass fittings, \$43.90 | 64 | 18 | | | | |
| Sundry fittings and tools..... | 47 | 41 | | | | |
| 6 life preservers, \$7.50 ; rope, \$28.31 ; fog bell, \$18.00 | 53 | 81 | | | | |
| Labor..... | 2,537 | 13 | | | | |
|  |  |  | ..... |  | 4,089 | 28 |
| QUEEN STREET EAST CULVERT. | | | | | | |
| 138 bbls. cement, \$396.27 ; 12,500 bricks, \$93.75..... | 490 | 02 | | | | |
| 36 ft. 9-in. pipe, \$5.40 ; 15 gals. coal oil, \$2.10..... | 7 | 50 | | | | |
| 2 bends..... | 1 | 50 | | | | |
| Labor..... | 656 | 73 | | | | |
| | 1,155 | 75 | | | | |
| Less amount paid to Treasurer by Mc- Lean Howard..... | 100 | 00 | | | | |
| | | | 1,055 | 75 | | |
| | | | | | 1,055 | 75 |
| | | | | | 335,937 | 89 |
| RAILWAY PAVEMENTS. | | | | | | |
| <i>Rosedale Loop Line.</i> | | | | | | |
| 34 yds. gravel, \$24.76 ; Sand, \$12.18 | 36 | 94 | | | | |
| 123 ft. lumber, \$1.46 ; 12,000 bricks \$174 | 175 | 46 | | | | |
| 13½ tons macadam, \$61.28 ; 10½ cords posts \$46.20 | 107 | 48 | | | | |
| 10 bbl. cement | 37 | 60 | | | | |
| Contract | 325 | 67 | | | | |
| Labor | 323 | 33 | | | | |
| | | | 1,006 | 48 | | |
| <i>Bathurst Street, Queen to Bloor.</i> | | | | | | |
| Contract..... | | | 100 | 00 | | |
| <i>King Street, Sherbourne to Simcoe.</i> | | | | | | |
| Contract..... | | | 3,802 | 49 | | |
| <i>College Street, Yonge to McCaul.</i> | | | | | | |
| Contract | | | 1,555 | 81 | | |
| <i>Carried forward</i> | | | 6,464 | 78 | ..... |  |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 6,464 | 78 | 335,937 | 89 |
| <i>York Street, Front to Queen.</i> | | | | | | |
| Contract..... | | | 1,167 | 35 | | |
| <i>Dovercourt Road, College to Bloor.</i> | | | | | | |
| Contract..... | | | 1,633 | 10 | | |
| <i>McCaul Street, Queen to College.</i> | | | | | | |
| Contract..... | | | 2,883 | 81 | 12,149 | 04 |
| BRIDGES, GRADINGS, ETC. | | | | | | |
| <i>Queen Street Bridge Over Don.</i> | | | | | | |
| 1,389 ft. pine wood, \$22.13 ; use of capstan, \$17.80..... | 39 | 93 | | | | |
| Plumbing work, \$9.14 ; use of scow, etc., \$200..... | 209 | 14 | | | | |
| 30 yds. stone, \$37.94 ; removing gates, \$75 | 112 | 94 | | | | |
| 38,407 ft. lumber, \$727.52 ; 3½ cords wood, \$16.50..... | 744 | 02 | | | | |
| 1,340 lbs. nails, \$37.96 ; 300 bbls. cement, \$797.72 | 835 | 68 | | | | |
| Freight, \$193.20 ; 1½ toise macadam, \$15. | 208 | 20 | | | | |
| 1 ton coal, \$5.75 ; blacksmithing, \$52.31. | 58 | 06 | | | | |
| Cartage, \$13.95 ; resawing, \$12.90 | 26 | 85 | | | | |
| Travelling expenses..... | 63 | 00 | | | | |
| 3 prs. boots, \$12.18 ; 8 cords posts, \$16.01 | 28 | 19 | | | | |
| Repairs, \$7.95 ; insurance, \$50..... | 57 | 95 | | | | |
| Oils, lanterns, globes and sundry material | 12 | 26 | | | | |
| Contract..... | 4,000 | 00 | | | | |
| Inspection, \$235.50 ; labor, \$3,496.56.... | 3,732 | 16 | | | | |
| | | | 10,128 | 38 | | |
| <i>Eastern Avenue Bridge.</i> | | | | | | |
| 1,241 ft. pine wood, \$20.68 ; 220 lbs. nails, \$5.80..... | 26 | 48 | | | | |
| 1,525 ft. lumber, \$25.34 ; 8 bbls. cement, \$20.72 | 46 | 06 | | | | |
| Use of chain, etc..... | 8 | 75 | | | | |
| Piles, cartage, etc..... | 11 | 65 | | | | |
| Contract..... | 6,402 | 79 | | | | |
| Inspection, \$379.61 ; labor, \$202.02..... | 581 | 63 | | | | |
| | 7,077 | 36 | | | | |
| Less amount paid Treasurer for iron.... | 451 | 32 | | | | |
| | | | 6,626 | 04 | | |
| <i>Carried forward</i> | | | 16,754 | 42 | 348,086 | 93 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 16,754 | 42 | 348,086 | 93 |
| <i>Humber River Bridge.</i> | | | | | | |
| Contract | 3,571 | 20 | | | | |
| Inspection | 303 | 00 | | | | |
| Labor | 13 | 42 | | | | |
| | | | 3,887 | 62 | | |
| <i>Dundas Street Bridge Track Repairs.</i> | | | | | | |
| 18 bbls. cement, \$46.62 ; coal oil, 53c.... | 47 | 15 | | | | |
| Labor | 520 | 39 | | | | |
| | | | 567 | 54 | | |
| <i>York Street Bridge.</i> | | | | | | |
| 28 bbls. pitch (C.P.R.) | | | 51 | 00 | | |
| <i>Queen Street Subway.</i> | | | | | | |
| Freight on bricks | 13 | 40 | | | | |
| Altering and lining tracks | 114 | 12 | | | | |
| Corrugated iron shelters | 320 | 00 | | | | |
| 500 bricks | 6 | 50 | | | | |
| Contract | 6,789 | 10 | | | | |
| Labor | 553 | 79 | | | | |
| | | | 7,796 | 91 | | |
| | | | | | 29,057 | 49 |
| LOCAL IMPROVEMENT SEWERS. | | | | | | |
| <i>Amelia Street, Sumach to 180 ft. Easterly.</i> | | | | | | |
| 585 ft. lumber, \$6.24; 5 bbls. cement, \$11.75..... | 17 | 99 | | | | |
| 194 ft. of 12-in. pipe, \$48.50 ; 8 ft. 18-in. pipe, \$2.40 | 50 | 90 | | | | |
| 7 junctions, \$6.25; 400 bricks, \$2.80 | 9 | 05 | | | | |
| Bends and coal oil, etc..... | 80 | | | | | |
| Labor | 208 | 09 | | | | |
| | | | 286 | 83 | | |
| <i>Bernard Avenue, Bedford Road to 380 feet East.</i> | | | | | | |
| 380 ft. of 12-in. pipe, \$66.40 ; 33 junctions, \$23.90..... | 90 | 30 | | | | |
| 2,175 bricks, \$15.31 ; 29½ bbls. cement, \$69.32 | 84 | 63 | | | | |
| 16 yds. gravel, \$10.84; 8 9-in. bends, \$3.20..... | 14 | 04 | | | | |
| 274 ft. of 6-in. pipe, \$19.18 ; 42 ft. of 9-in. pipe, \$5.25 | 24 | 43 | | | | |
| Sand, coal oil, etc..... | 16 | 86 | | | | |
| Labor | 236 | 42 | | | | |
| | | | 466 | 68 | | |
| <i>Carried forward</i> | | | 753 | 51 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|-------|----|---------|----|
| <i>Brought forward</i> | | | 753 | 51 | 377,144 | 42 |
| <i>Dupont Street, Huron to Howland.</i> | | | | | | |
| Labor | 38 | 73 | | | | |
| Inspection | 106 | 56 | | | | |
| Contract | 1,945 | 20 | | | | |
| | | | 2,090 | 49 | | |
| <i>Dupont Street, Davenport to St. George.</i> | | | | | | |
| 6½ bbls. cement, \$16.83; 2 culvert traps, \$10 | 26 | 83 | | | | |
| 42 ft. of 6-in. pipe, \$3.78; 250 ft. of 12-in. pipe, \$62.50..... | 66 | 28 | | | | |
| Bends, \$5; 21 junctions, \$21 | 26 | 00 | | | | |
| 342 ft. lumber, \$3.43; 2,500 bricks, \$18.75 | 22 | 18 | | | | |
| Sharpening tools, \$5.12; sand, \$2.80 | 7 | 92 | | | | |
| Gaskets, stoppers, etc..... | 5 | 57 | | | | |
| Labor | 280 | 58 | | | | |
| | | | 435 | 36 | | |
| <i>Fisher Street, Dufferin to Sheridan.</i> | | | | | | |
| Labor | 48 | 31 | | | | |
| Contract | 432 | 29 | | | | |
| | | | 480 | 60 | | |
| <i>Golden Avenue, Dundas to 440 ft. North.</i> | | | | | | |
| Labor | 48 | 29 | | | | |
| Contract | 412 | 80 | | | | |
| | | | 461 | 09 | | |
| <i>Hickory Street, St. Patrick to lane.</i> | | | | | | |
| 700 bricks, \$5.25; 214 ft. of 12-in. pipe, \$53.50 | 58 | 75 | | | | |
| 4 bbls. cement, \$10.36; 6 junctions, \$6.00 | 16 | 36 | | | | |
| 410 lbs. castings, \$6.15; 1 cul trap, \$5.00 | 11 | 15 | | | | |
| Coal oil, stoppers, manhole steps, etc..... | 4 | 60 | | | | |
| Labor | 162 | 37 | | | | |
| | | | 253 | 23 | | |
| <i>Orford Avenue, Parliament to Clara.</i> | | | | | | |
| 3,000 bricks, \$21.00; 19 junctions, \$19.. | 40 | 00 | | | | |
| 1,008 ft. lumber, \$15.52; 8 bbls. cement, \$18.80..... | 34 | 32 | | | | |
| 40 ft. of 9-in pipe, \$6.00; 362 ft. 12-in pipe, \$90.50..... | 96 | 50 | | | | |
| Gravel, coal oil, manhole steps, etc..... | 7 | 91 | | | | |
| Labor | 398 | 78 | | | | |
| | | | 577 | 51 | | |
| <i>Queen Street, Knox, to 500 ft. East.</i> | | | | | | |
| Labor | 46 | 62 | | | | |
| Contract | 619 | 05 | | | | |
| | | | 665 | 67 | | |
| <i>Carried forward</i> | | | 5,717 | 46 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 5,717 | 46 | 377,144 | 42 |
| <i>Spadina Avenue, Dupont to North City Toronto.</i> | | | | | | |
| 58 ft. of 9-in. pipe, \$8.70 ; 23,150 bricks, \$173.63..... | 182 | 33 | | | | |
| 2 cul traps, \$10 ; 33 bbls. cement \$85.47.. | 95 | 47 | | | | |
| 10 yds. sand, \$7 ; sharpening tools \$6.50 | 13 | 50 | | | | |
| Bends, pails, manhole steps, etc..... | 4 | 62 | | | | |
| Labor..... | 539 | 35 | | | | |
| <i>Van Horne Street, Dufferin to Dovercourt.</i> | | | 835 | 27 | | |
| Labor..... | 8 | 10 | | | | |
| Inspection..... | 156 | 51 | | | | |
| Contract..... | 1,778 | 98 | | | | |
| | | | 1,943 | 59 | | |
| LOCAL IMPROVEMENT PAVEMENTS 1899— ASPHALT. | | | | | 8,496 | 32 |
| <i>Admiral Rd., Lowther to Bernard.</i> | | | | | | |
| 1,360 ft. lumber..... | 16 | 55 | | | | |
| 180 bricks, \$1.35 ; 8 bbls. cement, \$20.72 | 22 | 07 | | | | |
| 6,500 lbs. castings..... | 97 | 50 | | | | |
| Pipe, bends, sand, nails, etc..... | 15 | 55 | | | | |
| Contract work..... | 6,518 | 40 | | | | |
| Inspection, \$104.50 ; labor, 170.43..... | 274 | 93 | | | | |
| <i>Adelaide Street, Church to Yonge.</i> | | | 6,945 | 00 | | |
| Contract work..... | | | 1,929 | 66 | | |
| <i>Albert Street, Yonge to James.</i> | | | | | | |
| 2,500 bricks, \$18.75 ; 4 bbls. cement, \$10.36 | 29 | 11 | | | | |
| 3,960 lbs. castings, \$59.40 ; 1 culvert trap, \$5.00..... | 64 | 40 | | | | |
| Pipe, sand..... | 6 | 48 | | | | |
| Concrete walk..... | 72 | 90 | | | | |
| Contract work..... | 3,443 | 50 | | | | |
| Inspection \$48.00 ; labor, \$73.71..... | 121 | 71 | | | | |
| | | | 3,738 | 10 | | |
| <i>Bernard Avenue, Avenue Rd. to Bedford.</i> | | | | | | |
| 5,000 bricks, \$37.50 ; 12 $\frac{3}{4}$ bbls cement, \$33.03..... | 70 | 53 | | | | |
| 5,070 lbs castings..... | 76 | 05 | | | | |
| Pipes, bends, sand, etc..... | 19 | 17 | | | | |
| Contract work..... | 4,933 | 52 | | | | |
| Inspection, \$73.50 ; labor, \$144.90..... | 218 | 40 | | | | |
| | | | 5,317 | 67 | | |
| <i>Carried forward</i> | | | 17,930 | 43 | 385,640 | 74 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 17,930 | 43 | 377,144 | 42 |
| <i>Bloor Street, Avenue Rd. to Walmer Rd.</i> | | | | | | |
| 534 ft. lumber, \$6.45 ; nails, \$1.04 | 7 | 49 | | | | |
| 12,350 bricks, \$92.62 ; 30½ bbls. cement, \$80.19..... | 172 | 81 | | | | |
| 1 manhole top, \$8.10 ; culvert traps, \$10 ; gully tops, \$119.70..... | 137 | 80 | | | | |
| 5,130 lbs. castings, \$76.95 ; 1 6-in. p. trap, \$1.50..... | 78 | 45 | | | | |
| Repairing concrete walk..... | 25 | 74 | | | | |
| Bends, pipe, sand, coal oil, etc..... | 49 | 20 | | | | |
| Contract work..... | 5,950 | 00 | | | | |
| Inspection, \$125.50 ; labor, \$347.28..... | 472 | 78 | | | | |
| | | | 6,894 | 27 | | |
| <i>Brunswick Avenue, Sussex to Bloor.</i> | | | | | | |
| 1,450 bricks, \$10.87 ; 4½ bbls. cement, \$11.55..... | 22 | 42 | | | | |
| 2 culvert traps, \$10 ; manhole tops, \$32.40 ; 4 culvert tops, \$31.50 | 73 | 90 | | | | |
| Pipe, sand and bends | 7 | 75 | | | | |
| Contract work | 4,412 | 10 | | | | |
| Inspection, \$74.50 ; labor, \$121.66 | 196 | 16 | | | | |
| | | | 4,712 | 33 | | |
| <i>Bedford Road, Louther to Bernard.</i> | | | | | | |
| 2,800 bricks, \$20.99 ; 10 bbls. cement, \$23.50..... | 44 | 49 | | | | |
| 1½ cords blocks, \$7.65 ; 8 yds. sand, \$5.60 | 13 | 25 | | | | |
| Pipe, bends, R. globes, etc..... | 13 | 78 | | | | |
| Contract work..... | 6,380 | 30 | | | | |
| Inspection, \$93 ; labor, \$174.21..... | 267 | 21 | | | | |
| | | | 6,719 | 03 | | |
| <i>Bleecker Street, Carlton to Wellesley.</i> | | | | | | |
| Contract work | | | 1,630 | 20 | | |
| <i>Carlton Street, Sherbourne to Parliament.</i> | | | | | | |
| 1,082½ ft. lumber, \$13.17 ; 33 2-in. kerb, \$4.48 | 17 | 65 | | | | |
| 1 cord blocks, \$5.10 ; 50 lbs. nails, 92c. ; .38 toise macadam, \$3.80 | 9 | 82 | | | | |
| 3,000 bricks, \$22.50 ; 150 bbls. cement, \$38.80 | 61 | 30 | | | | |
| 1,283 yds. sod, \$44.91 ; 150 ft. hose, \$14.25 | 59 | 16 | | | | |
| 4,595 lbs. castings, \$68.93 ; sand and pipe, \$16.86 | 85 | 79 | | | | |
| Repairing concrete walk..... | 14 | 50 | | | | |
| Contract work | 11,210 | 90 | | | | |
| Inspection, \$108.50 ; labor, \$324.98..... | 433 | 48 | | | | |
| | | | 11,892 | 60 | | |
| <i>Carried forward</i> | | | 49,778 | 86 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 49,778 | 86 | 377,144 | 42 |
| <i>Carlton Street, Yonge to Jarvis.</i> | | | | | | |
| Contract work | | | 147 | 09 | | |
| <i>Classic Avenue, Spadina to Huron.</i> | | | | | | |
| 512 ft. lumber, \$6.15 ; 2,910 lbs. castings, \$43.65 | 49 | 80 | | | | |
| 650 bricks, \$4.88 ; 3 bbls. cement, \$7.05.. | 11 | 93 | | | | |
| Bends, sand, pipe, etc..... | 5 | 22 | | | | |
| Contract work | 2,826 | 49 | | | | |
| Inspection, \$81 ; labor, \$77.49 | 158 | 49 | | | | |
| | | | 3,051 | 93 | | |
| <i>Close Avenue, King to Queen.</i> | | | | | | |
| 602 ft. lumber, \$7.31 ; 5,900 lbs. castings, \$88.50 | 95 | 81 | | | | |
| 5,500 bricks, \$10.87 ; 5½ bbls. cement, \$14.25 | 25 | 12 | | | | |
| Nails, coal oil, sand, etc..... | 3 | 78 | | | | |
| Contract work | 6,128 | 28 | | | | |
| Inspection, \$98.50 ; labor, \$102.97 | 201 | 47 | | | | |
| | | | 6,454 | 46 | | |
| <i>Crawford Street, Queen Street to the bridge.</i> | | | | | | |
| 871 ft. lumber, \$10.59 ; 37 lbs. nails, 77c. | 11 | 36 | | | | |
| 5,135 bricks, \$38.52 ; 15 bbls. cement, \$38.85 | 77 | 37 | | | | |
| 9,620 lbs. castings, \$144.30 ; 8½ yds. sand, \$4.20 | 148 | 50 | | | | |
| Bends, pipe, etc | 20 | 34 | | | | |
| Contract work | 8,726 | 80 | | | | |
| Inspection, \$90.50 ; labor, \$270.60 | 361 | 10 | | | | |
| | | | 9,345 | 47 | | |
| <i>Churchill Avenue, Dovercourt to 715 ft. east.</i> | | | | | | |
| 688 ft. lumber, \$8.34 ; 4,510 lbs. castings, \$67.65 | 75 | 99 | | | | |
| 1,850 bricks, \$13.87 ; 5 bbls. cement, \$12.95 | 26 | 82 | | | | |
| Nails, pipe, sand, bends, etc..... | 7 | 34 | | | | |
| Contract work | 4,079 | 68 | | | | |
| Inspection, \$54.50 ; labor, \$92.99 | 147 | 49 | | | | |
| | | | 4,337 | 32 | | |
| <i>Cecil Street, Spadina to Bererley.</i> | | | | | | |
| Contract work | | | 1,440 | 72 | | |
| <i>Carlton Street, Jarvis to Sherbourne.</i> | | | | | | |
| Contract work | | | 1,433 | 11 | | |
| <i>Carried forward</i> | | | 75,988 | 96 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|--------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 75,988 | 96 | 377,144 | 42 |
| <i>Czar Street, Yonge to North.</i> | | | | | | |
| Contract work..... | | | 671 | 85 | | |
| <i>Devonshire Place, Hoskin to Bloor.</i> | | | | | | |
| Contract work..... | | | 1,666 | 65 | | |
| <i>Earl Street, Sherbourne to West end.</i> | | | | | | |
| Contract work..... | | | 583 | 42 | | |
| <i>Front Street, Jarvis to George.</i> | | | | | | |
| 1,000 bricks, \$7.50 ; 1,710 lbs. castings, \$25.65..... | 33 | 15 | | | | |
| 1 culvert trap, \$5 ; 4 bbls. cement, \$10.36 ; 2 yds. sand, \$1.74..... | 17 | 10 | | | | |
| Contract work..... | 800 | 00 | | | | |
| Inspection, \$55 ; labor, 95.66 | 150 | 66 | | | | |
| | | | 2,000 | 91 | | |
| <i>Front Street, York to Bay.</i> | | | | | | |
| 43 bbls. cement, \$109.21 ; 5,500 bricks, \$41.25..... | 150 | 46 | | | | |
| 6 manhole steps, 96c. ; 2 culvert traps, \$10 ; 50 toise macadam, \$5 ; 12 yds. gravel, \$8.88 ; 6 yds. sand, \$5.22..... | 10 | 96 | | | | |
| 7,640 lbs. castings..... | 19 | 10 | | | | |
| Brick bats, pipes and coal oil..... | 114 | 60 | | | | |
| Moving poles..... | 15 | 88 | | | | |
| Contract work..... | 19 | 85 | | | | |
| Inspection, \$106.00 ; labor 312.31..... | 10,907 | 21 | | | | |
| | 418 | 31 | | | | |
| | | | 11,656 | 37 | | |
| <i>Gifford Street, Spruce to Carlton.</i> | | | | | | |
| 9 bbls. cement, \$23.31 ; 1,000 bricks, \$7.50 | 30 | 81 | | | | |
| 128 ft. lumber, \$1.55 ; 5 lbs. nails, 9c.... | 1 | 64 | | | | |
| 10 manhole steps, \$1.60 ; 4 yds. sand, \$3.48..... | 5 | 08 | | | | |
| 2,750 lbs. castings..... | 41 | 25 | | | | |
| Contract work..... | 2,228 | 25 | | | | |
| Inspection, \$34 ; labor, \$84.52..... | 118 | 52 | | | | |
| | | | 2,425 | 55 | | |
| <i>Hoskin Avenue, St. George to Queen's Park.</i> | | | | | | |
| Contract work | | | 1,857 | 78 | | |
| <i>Carried forward</i> | | | 96,851 | 49 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 96,851 | 49 | 377,144 | 42 |
| <i>Huron Street, Bloor to Niagara.</i> | | | | | | |
| 1,400 bricks, \$18; 12 bbls. cement, \$31.08 | 49 | 08 | | | | |
| 6,220 lbs. castings, \$96.30; 7 $\frac{1}{4}$ yds. sand, \$5.07 | 101 | 37 | | | | |
| Pipe, bends, etc | 20 | 15 | | | | |
| Contract work | 5,577 | 70 | | | | |
| Inspection \$73; labor, \$174.36 | 247 | 36 | | | | |
| | | | 5,995 | 66 | | |
| <i>James Street, Queen to Albert.</i> | | | | | | |
| 2,400 lbs. castings, \$36; 4 bbls. cement, \$9.40 | 45 | 40 | | | | |
| 2 culvert traps, \$10; 1 street Y gully, \$25.50 | 35 | 50 | | | | |
| Pipe, bends and sand | 15 | 28 | | | | |
| Contract work | 4,594 | 04 | | | | |
| Inspection, \$72; labor, \$93.83 | 165 | 83 | | | | |
| | | | 4,856 | 05 | | |
| <i>King Street, Simcoe to Spadina.</i> | | | | | | |
| 9,125 bricks, \$68.44; 26 $\frac{1}{4}$ bbls. cement, \$67.99 | 136 | 43 | | | | |
| 5,700 lbs. castings, \$85.50; 8 culvert traps, \$40 | 125 | 50 | | | | |
| Pipe, junctions, bends, etc. | 79 | 54 | | | | |
| Inspection, \$46.50; labor, \$539.80 | 586 | 30 | | | | |
| | | | 927 | 77 | | |
| <i>Lakeview Avenue, Dundas to Churchill.</i> | | | | | | |
| 6,480 lbs. castings, \$97.20; 1,776 ft. lumber, \$21.61 | 118 | 81 | | | | |
| 2,850 bricks, \$21.37; 10 $\frac{1}{2}$ bbls. cement, \$27.19 | 48 | 56 | | | | |
| 1,563 yds. sod, \$54.70; 75 lbs. nails, \$1.56 | 56 | 26 | | | | |
| Pipe, sand, bends, etc | 18 | 74 | | | | |
| Contract work | 5,342 | 49 | | | | |
| Inspection, \$106.50; labor, \$249.57 | 356 | 07 | | | | |
| | | | 5,940 | 93 | | |
| <i>Lane South of Front Street, Scott Street to East End.</i> | | | | | | |
| 4 bbls. cement, \$10.36; 52 ft. pipe, \$14.16; junctions, \$1.50 | 26 | 02 | | | | |
| Contract work | 2,477 | 10 | | | | |
| Inspection, \$61.50; labor, \$36.97 | 98 | 47 | | | | |
| | | | 2,601 | 59 | | |
| <i>Lane in rear of Canada Permanent Bldg.</i> | | | | | | |
| Contract work | | | 100 | 66 | | |
| <i>Carried forward</i> | | | 117,274 | 15 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|--------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 117,274 | 15 | 377,144 | 42 |
| <i>Markham Street, College to Harbord.</i> | | | | | | |
| 5,625 bricks, \$42.19; 21½ bbls. cement, \$55.68..... | 97 | 87 | | | | |
| 9,150 lbs. castings, \$134.70; 8 manhole steps, \$1.28..... | 135 | 98 | | | | |
| Pipe, bends, sand, etc..... | 24 | 62 | | | | |
| Contract work..... | 11,305 | 09 | | | | |
| Inspection, \$154.50; labor \$257.18..... | 411 | 68 | | | | |
| | | | 11,975 | 15 | | |
| <i>Madison Avenue, Bloor to Dupont.</i> | | | | | | |
| 10,300 bricks, \$77.25; 29 bbls. cement, \$76.49..... | 153 | 74 | | | | |
| 20,530 lbs. castings, \$307.95; 4 culvert traps, \$20..... | 327 | 95 | | | | |
| 160 ft. pipe, \$24.20; 1 manhole top, \$8.10..... | 32 | 30 | | | | |
| Bends, sand, coal oil..... | 13 | 69 | | | | |
| Contract work..... | 18,700 | 00 | | | | |
| Inspection, \$174; labor, \$423.92..... | 597 | 92 | | | | |
| | | | 19,825 | 60 | | |
| <i>Marion Street, Lansdowne to O'Hara.</i> | | | | | | |
| 2,820 lbs. castings, \$42.30; 1,320 ft. lum- ber, \$16.04..... | 58 | 34 | | | | |
| 250 bricks, \$1.88; 1½ bbls. cement, \$3.89; 100 lbs. nails, \$2.08..... | 7 | 85 | | | | |
| Sand, pipe, bends..... | 1 | 70 | | | | |
| Contract, work..... | 2,908 | 63 | | | | |
| Inspection, \$54.50; labor, \$62.23..... | 116 | 73 | | | | |
| | | | 3,093 | 25 | | |
| <i>Major Street, College to Bloor.</i> | | | | | | |
| 15,910 lbs. castings, \$238.65; 7,750 bricks, \$58.12..... | 296 | 77 | | | | |
| 29 bbls. cement, \$75.11; 1 culvert trap, \$5..... | 80 | 11 | | | | |
| 150 ft. hose, \$14.25; 14 yds. sand, \$9.80.. | 24 | 05 | | | | |
| Pipe, bends, coal oil, etc..... | 15 | 32 | | | | |
| Contract work..... | 20,643 | 85 | | | | |
| Inspection, \$192; labor, \$442.13..... | 634 | 13 | | | | |
| | | | 21,694 | 23 | | |
| <i>Munn's Lane, Wellington to 218 ft. north.</i> | | | | | | |
| Contract work..... | | | 149 | 17 | | |
| <i>Prince Arthur Avenue, Huron to St. George.</i> | | | | | | |
| 2,250 lbs. castings, \$31.20; 194 ft. kerb, \$135.80..... | 167 | 00 | | | | |
| 600 bricks, \$4.50; 500 yds. sod, \$17.50; 2 bbls. cement, \$5.18..... | 27 | 18 | | | | |
| Sand, pipe, bends, etc..... | 2 | 91 | | | | |
| <i>Carried forward</i> | 197 | 09 | 174,011 | 55 | 377,144 | 42 |

| | \$ c. | \$ c. | \$ c. |
|--|-----------|------------|------------|
| <i>Brought forward</i> | 197 09 | 174,011 55 | 377,144 42 |
| Contract work..... | 1,769 34 | | |
| Inspection, \$76.50; labor, \$100.10..... | 176 60 | | |
| | | 2,143 03 | |
| <i>Queen Street, Bathurst to Niagara.</i> | | | |
| 1,680 lbs. castings, \$25.20; 980 bricks, \$7.30 | 32 50 | | |
| 2½ bbls. cement, \$5.88; 1 street Y gully, \$25.50..... | 31 38 | | |
| 1,350 ft. lumber, \$16.46; nails, \$2.08.... | 18 54 | | |
| Pipe, bends, sand, etc..... | 4 57 | | |
| Contract work..... | 13,835 54 | | |
| Inspection, \$203; labor, \$173.28..... | 376 28 | | |
| | | 14,298 81 | |
| <i>Queen Street, Yonge to River.</i> | | | |
| Contract work..... | | 10,948 50 | |
| <i>Queen Street, Yonge to John.</i> | | | |
| 11,400 bricks, \$83; 34 bbls. cement, \$80.38; 4 culvert traps, \$20..... | 183 38 | | |
| 17,040 lbs. castings, \$255.60; .51 toise mac- adam, \$5.10..... | 260 70 | | |
| 1,314 ft. pipe, \$59.11; 1,067 ft. kerb, \$14.40; 200 lbs. nails, \$4.16..... | 77 67 | | |
| ½ cord blocks, \$2.55; 4 pounders, \$7; 14½ yds. sand, \$12.02..... | 21 57 | | |
| Manhole steps, rope, junctions, etc | 19 68 | | |
| Contract work..... | 27,158 46 | | |
| Inspection, \$300; labor, \$657.26..... | 957 26 | | |
| | | 28,678 72 | |
| <i>Spruce Street, Parliament to Sumach.</i> | | | |
| 25 bbls. cement, \$64.75; 5,500 bricks, \$41.25 | 106 00 | | |
| 7,270 lbs. castings, \$109.05; 1,122 ft. lum- ber, \$14.53..... | 123 58 | | |
| 3,797 yds. sod, \$132.90; 300 ft. kerb, \$4.05; nails, 64c..... | 137 59 | | |
| 11 yds. sand, \$10.44; 1 culvert trap, \$5.. | 15 44 | | |
| Pipe, manhole steps, spades, etc..... | 18 92 | | |
| Contract work..... | 7,840 60 | | |
| Inspection, \$74; labor, \$380.77..... | 454 77 | | |
| | | 8,636 90 | |
| <i>Spadina Avenue, Knox College to Bloor.</i> | | | |
| 8,800 lbs. castings, \$132; 480 ft. lumber, \$5.87 | 137 87 | | |
| 6,115 bricks, \$45.82; 22 bbls. cement, \$56.98..... | 102 80 | | |
| Moving poles..... | 11 00 | | |
| Pipe, bends, sand, etc..... | 37 91 | | |
| <i>Carried forward</i> | 289 58 | 238,777 51 | 377,144 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|---------|----|---------|----|
| <i>Brought forward</i> | 289 | 58 | 238,777 | 51 | 377,144 | 42 |
| Contract work..... | 20,825 | 00 | | | | |
| Inspection, \$171; labor, \$322.59..... | 493 | 59 | | | | |
| | | | 21,608 | 17 | | |
| <i>Wellesley Street, Sherbourne to Parliament.</i> | | | | | | |
| Contract work..... | | | 1,775 | 25 | | |
| BRICK. | | | | | | |
| <i>Borden Street, College to Ulster.</i> | | | | | | |
| 4,631 ft. lumber, \$54.93; 2,775 bricks, \$20.81..... | 75 | 74 | | | | |
| 5 bbls. cement, \$11.75; 400 lbs. nails, \$8.32; 1 culvert trap, \$5..... | 25 | 07 | | | | |
| 3 yds. sand, \$2.10; 2,880 yds. sod, \$100.80; 66 ft. pipe, \$9.90..... | 112 | 80 | | | | |
| Bends, junctions, nozzles, etc..... | 6 | 36 | | | | |
| Contract work..... | 6,082 | 35 | | | | |
| Inspection, \$126; labor, \$373.60..... | 499 | 60 | | | | |
| | | | 6,801 | 92 | | |
| <i>Brookfield Street, Queen to Humbert.</i> | | | | | | |
| 1,050 bricks, \$7.87; 4 bbls. cement, \$9.40 | 17 | 27 | | | | |
| Pipe, sand, globes, etc..... | 4 | 53 | | | | |
| Contract work..... | 3,055 | 75 | | | | |
| Inspection, \$105; labor, \$55.53..... | 160 | 53 | | | | |
| | | | 3,238 | 08 | | |
| <i>Buchanan Street, Yonge to Teraulty.</i> | | | | | | |
| 4,500 bricks, \$652.50; 1,513 ft. kerb, \$502.56..... | 1,155 | 06 | | | | |
| Teaming and setting kerb, \$135.70; repair- ing tools, \$6.11..... | 141 | 81 | | | | |
| 96 yds. sand, \$83.52; customs' entry, \$35.80 | 119 | 32 | | | | |
| Labor..... | 340 | 15 | | | | |
| | | | 1,756 | 34 | | |
| <i>Bellevue Place, Bellevue to Carlyle.</i> | | | | | | |
| 67,700 bricks, \$931.30; 67½ bbls. cement, \$152.23..... | 1,083 | 53 | | | | |
| 1,012 ft. kerb, \$332.58; teaming kerb, \$35.36..... | 367 | 94 | | | | |
| Setting kerb, \$60.78; sharpening tools, \$3.10 | 63 | 88 | | | | |
| 42 yds. gravel, \$31.08; 98 yds. stone, \$137.20..... | 168 | 28 | | | | |
| 120 yds. sand, \$84; paving pitch, \$15.72. | 99 | 72 | | | | |
| Pipe, bends, manhole steps, etc..... | 9 | 64 | | | | |
| Customs' entry..... | 26 | 00 | | | | |
| Labor..... | 688 | 93 | | | | |
| | 2,507 | 92 | | | | |
| <i>Carried forward</i> | | | 273,957 | 27 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | 2,507 | 92 | 273,957 | 27 | 377,144 | 42 |
| <i>Cr.</i> | | | | | | |
| 2 bbls. pitch, \$6.64 ; 50 bbls. cement, \$15.50 | 22 | 14 | 2,485 | 78 | | |
| <i>Cameron Street, Queen to Cameron Place.</i> | | | | | | |
| 952 bricks, \$6.94 ; 4 bbls. cement, \$9.40 ; 1 $\frac{3}{4}$ yds. sand, \$1.22 | 17 | 56 | | | | |
| Contract work | 2,267 | 50 | | | | |
| Inspection, \$81.50 ; labor, \$52.82 | 134 | 32 | 2,419 | 38 | | |
| <i>Crawford Street, Arthur to North End.</i> | | | | | | |
| 1,210 ft. lumber, \$14.54 ; 100 lbs. nails, \$2.08 | 16 | 62 | | | | |
| 700 bricks, \$5.35 ; 3 bbls. cement, \$7.05 .. | 12 | 30 | | | | |
| Sand, bends, etc | 2 | 02 | | | | |
| Contract work | 5,536 | 89 | | | | |
| Inspection, \$108 ; labor, \$114.69 | 222 | 69 | 5,790 | 52 | | |
| <i>Concord Avenue, Bloor to 180 ft. South of Hepbourne.</i> | | | | | | |
| 2,100 ft. lumber, \$25.58 ; 50 lbs. nails, \$1.04 | 26 | 62 | | | | |
| 1,550 bricks, \$11.63 ; 3 bbls. cement, \$7.77 | 19 | 40 | | | | |
| 2 $\frac{1}{2}$ yds. sand, \$1.85 ; 24 ft. pipe, \$3.60 ; 2 bends, \$1.50 | 6 | 95 | | | | |
| 1 pounder, 25c. ; 2 gals. coal oil, 35c. | | 60 | | | | |
| Contract work | 3,263 | 05 | | | | |
| Inspection, \$148.50 ; labor, \$110.83 | 259 | 33 | 3,575 | 95 | | |
| <i>Cameron Place, Cameron to Vanauley.</i> | | | | | | |
| 3,800 bricks, \$406.55 ; 9 bbls. cement, \$26.99 | 433 | 54 | | | | |
| 562 ft. lumber, \$48.92 ; 1 $\frac{1}{4}$ yds. sand, \$24.15 | 73 | 07 | | | | |
| 1 culvert trap, \$5 ; 62 yds. gravel, \$69.75. | 74 | 75 | | | | |
| Nails, \$4.05 ; hammers and handles, \$1.10 | 5 | 15 | | | | |
| Pipe, bends, etc | 11 | 93 | | | | |
| Labor | 231 | 65 | 829 | 59 | | |
| <i>Dundas Street, Queen to Arthur.</i> | | | | | | |
| Contract work | | | 938 | 34 | | |
| <i>Denison Square, Augusta to Bellevue.</i> | | | | | | |
| 254 yds. sod | 8 | 89 | | | | |
| Contract work | 830 | 36 | | | | |
| Inspection, \$58 ; labor, \$40.37 | 98 | 37 | 937 | 62 | | |
| <i>Carried forward</i> | | | 290,934 | 45 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 290,934 | 45 | 377,144 | 42 |
| <i>Frazer Street, King to 239 ft. South.</i> | | | | | | |
| Contract work | 1,327 | 42 | | | | |
| Inspection, \$72.50 ; labor, \$12.95..... | 85 | 45 | | | | |
| | | | 1,412 | 87 | | |
| <i>Fuller Street, Queen to Pearson.</i> | | | | | | |
| Inspection, \$31 ; labor \$78.52..... | | | 199 | 52 | | |
| <i>Grove Avenue, Foxley to Dundas.</i> | | | | | | |
| 6,680 ft. lumber, \$43.98 ; 1,615 ft. kerb, \$622.41..... | 666 | 39 | | | | |
| 112,436 bricks, \$1,400.97 ; 114 bbls. ce- ment, \$466.95..... | 1,867 | 92 | | | | |
| Teaming and setting kerb, \$143.19; repair- ing tools, \$4.70 | 147 | 89 | | | | |
| 218 yds. sand, \$152.60; 3,575 lbs. paving pitch, \$28.60 | 181 | 20 | | | | |
| 170 yds. stone, \$259; 1,134 yds. sod, \$19.84 | 278 | 84 | | | | |
| Duty on stone, \$10.10 ; 1 culvert trap, \$5 | 15 | 10 | | | | |
| 204 yds. gravel, \$150.96 ; 50 lbs. nails, \$1.04..... | 152 | 00 | | | | |
| Pipe, bends, etc | 18 | 54 | | | | |
| Labor | 1,097 | 60 | | | | |
| | | | 4,425 | 48 | | |
| <i>Garden Avenue, Roncesvalles to Sorauren.</i> | | | | | | |
| 7,150 bricks, \$53.62 ; 16 bbls. cement, \$41.44 | 95 | 06 | | | | |
| 10½ yds. sand, \$7.53 ; 1 culvert trap, \$5 ; manhole steps, \$3.84..... | 16 | 37 | | | | |
| Pipe, bends, etc | 9 | 43 | | | | |
| Contract work | 5,457 | 39 | | | | |
| Inspection, \$102.50 ; labor, \$286.82 | 389 | 32 | | | | |
| | | | 5,967 | 57 | | |
| <i>Huron Street, Grange to St. Patrick.</i> | | | | | | |
| 1,500 ft. lumber, \$18.13 ; 783 ft. kerb, \$287.67 | 305 | 80 | | | | |
| 53,150 bricks, \$734.51 ; 131½ bbls. cement, \$297.74..... | 1,032 | 25 | | | | |
| 44 yds. gravel, \$32.56 ; 108 yds. sand, \$75.60 | 108 | 16 | | | | |
| 100 yds. stone, \$150 ; pitch, \$16.88 ; nails, \$2.08..... | 168 | 96 | | | | |
| Freight and duty | 28 | 48 | | | | |
| Inspection, \$12 ; labor, \$542.29 .. | 554 | 29 | | | | |
| | | | 2,197 | 94 | | |
| <i>Carried forward</i> | | | 305,047 | 83 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 305,047 | 83 | 377,144 | 42 |
| <i>Lippincott Street, College to Ulster.</i> | | | | | | |
| Lumber, \$6.12 ; 300 lbs. nails, \$6.24 ; 835 bricks, \$6.26 | 18 | 62 | | | | |
| 4½ bbls. cement, \$11.66 ; 1,100 lbs. castings, \$16.50 | 28 | 16 | | | | |
| 2 ft. pipe, 30c. ; 1½ yds. sand, \$1.05 | 1 | 35 | | | | |
| Contract work | 5,636 | 53 | | | | |
| Inspection, \$121 ; labor, \$191.99 | 312 | 99 | | | | |
| | | | 5,997 | 65 | | |
| <i>Leonard Avenue, Bellevue Place to Nassau.</i> | | | | | | |
| Labor | | | 2 | 79 | | |
| <i>Orford Avenue, Parliament to 243 ft. East.</i> | | | | | | |
| 29,200 bricks, \$423.40 ; 73 bbls. cement, \$179.20 | 602 | 60 | | | | |
| 502 ft. kerb, \$173.15 ; 243 yds. sod, \$8.50 | 181 | 65 | | | | |
| Teaming kerb, \$15.56 ; 46 yds. stone, \$69 | 84 | 56 | | | | |
| 88 yds. sand, \$74.16 ; lumber, \$1.11 | 75 | 27 | | | | |
| Tools | 4 | 52 | | | | |
| Inspection, \$3 ; labor, \$307.29 | 310 | 29 | | | | |
| | | | 1,258 | 89 | | |
| <i>Orford Avenue, Clara to 119 ft. West.</i> | | | | | | |
| 8,800 bricks, \$127.60 ; 19 bbls. cement, \$46.48 | 174 | 08 | | | | |
| 249 ft. kerb, \$85.95 ; teaming kerb, \$7.48 | 93 | 43 | | | | |
| 14 yds. stone, \$21 ; 32 yds. sand, \$26.72 | 47 | 72 | | | | |
| Sod, hoes, lumber, etc | 5 | 03 | | | | |
| Inspection, \$3 ; labor, \$94.25 | 97 | 25 | | | | |
| | | | 417 | 51 | | |
| <i>Orde Street, Murray to University.</i> | | | | | | |
| 37,900 bricks, \$534.15 ; 11 bbls. cement, \$6.72 | 540 | 87 | | | | |
| 74 yds. stone, \$111 ; 1980 ft. kerb, \$26.73 | 137 | 73 | | | | |
| 2 culvert traps, \$10 ; 1½ cord posts, \$7.38 ; 59 yds. sand, \$41.30 | 58 | 68 | | | | |
| Pipe, bends, junctions, etc | 17 | 10 | | | | |
| Inspection, \$6.50 ; labor, \$232.85 | 239 | 35 | | | | |
| | | | 993 | 73 | | |
| <i>Pearl Street, York to Simeoe.</i> | | | | | | |
| 1,000 bricks, \$7.50 ; 10 bbls. cement, \$25.90 | 33 | 40 | | | | |
| 640 ft. lumber, \$7.75 ; 5,100 lbs. castings, \$76.50 | 84 | 25 | | | | |
| 1 culvert trap, \$5 ; 30 ft. pipe, \$4.50 ; nails, 28c | 9 | 78 | | | | |
| <i>Carried forward</i> | 127 | 43 | 313,718 | 40 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|------|---------|----|---------|----|
| <i>Brought forward</i> | 127 | 43 | 313,718 | 40 | 377,144 | 42 |
| 4 yds. sand..... | | 3 48 | | | | |
| Contract work | 3,187 | 20 | | | | |
| Inspection, \$127.50 ; labor, \$182.50 | 310 | 00 | | | | |
| | | | 3,628 | 11 | | |
| <i>Robinson Street, Bathurst to Palmerston.</i> | | | | | | |
| 4,550 bricks, \$34.12; 10 bbls. cement, \$25.90 | 60 | 02 | | | | |
| 5 culvert traps, \$25 ; 7 yds. sand, \$4.90.. | 29 | 90 | | | | |
| Pipe, bends, etc. | 13 | 05 | | | | |
| Labor | 114 | 20 | | | | |
| | | | 217 | 17 | | |
| <i>Ross Street, College to Cecil.</i> | | | | | | |
| 1,987 yds. sod | 69 | 55 | | | | |
| Labor | 134 | 95 | | | | |
| | | | 204 | 50 | | |
| <i>St. Patrick Street, Spadina to Denison.</i> | | | | | | |
| 600 bricks, \$4.50 ; 2 bbls. cement, \$5.18 ; sand, 52c..... | 10 | 20 | | | | |
| Pipe, bends, etc | 2 | 15 | | | | |
| Contract work | 6,179 | 50 | | | | |
| Inspection, \$203 ; labor, \$156.08..... | 359 | 08 | | | | |
| | 6,550 | 93 | | | | |
| Amount paid Treasurer | 26 | 00 | | | | |
| | | | 6,524 | 93 | | |
| <i>Sorauren Avenue, Queen to Wright.</i> | | | | | | |
| 12,658 ft. lumber, \$153.31 ; 600 lbs. nails, \$12.48 | 165 | 79 | | | | |
| 565 lbs. iron, \$14.13 ; 183½ bbls. cement, \$412.73 ; 354 yds. sand, \$247.94..... | 674 | 80 | | | | |
| 391,650 bricks, \$5,414.50 ; 3 culvert traps, \$15..... | 5,429 | 50 | | | | |
| 20,884 ft. kerb, \$293.08 ; 543 yds. gravel, \$722.25 | 1,015 | 33 | | | | |
| Making templates, etc..... | 18 | 91 | | | | |
| 1,100 lbs. spikes, \$25.50 ; coal oil, \$1.75 ; lamps, \$1.45 | 28 | 70 | | | | |
| 11 cords posts, \$54.12 ; 100 ft. hose, \$26 ; pipes and bends, \$7.35 | 87 | 47 | | | | |
| Tools (rakes, levels, saws, pounders, etc.) | 43 | 18 | | | | |
| Labor..... | 1,612 | 30 | | | | |
| | | | 9,075 | 98 | | |
| <i>Selby Street, Sherbourne to Huntley.</i> | | | | | | |
| Contract work | | | 196 | 57 | | |
| <i>Carried forward</i> | | | 333,565 | 66 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|-----|---------|---------|---------|------------|
| <i>Brought forward</i> | | | 333,565 | 66 | 377,144 | 42 |
| CEDAR BLOCK PAVEMENTS. | | | | | | |
| <i>Adelaide Street, Bay to York.</i> | | | | | | |
| 2 bbls. cement, \$5.18 ; 1,000 bricks, \$7.50 | | 12 | 68 | | | |
| 2 yds. sand..... | | | 1 | 74 | | |
| Contract work | 1,770 | 50 | | | | |
| Inspection, \$27 ; labor \$36.36..... | | 63 | 36 | | | |
| | | | | 1,848 | 28 | |
| <i>Arthur Street, Bathurst to Euclid.</i> | | | | | | |
| Contract work..... | | | | 139 | 30 | |
| <i>Beatty Avenue, King to Queen.</i> | | | | | | |
| 10,784 ft. lumber, \$130.35 ; 700 lbs. nails, \$14.56..... | | 144 | 91 | | | |
| 50 bricks, 38c. ; $\frac{1}{2}$ bbl. cement, \$1.29 | | | 1 | 67 | | |
| Contract work..... | 1,608 | 48 | | | | |
| Inspection, \$54 ; labor, \$96.77 | | 150 | 77 | | | |
| | | | | 1,905 | 83 | |
| <i>Broadway Place, Spadina to 159 ft. West.</i> | | | | | | |
| 1,228 ft. lumber, \$14.66 ; 18 $\frac{3}{4}$ cords cedar blocks, \$95.63..... | | 110 | 29 | | | |
| 4 bbls. cement, \$10.36 ; 52 yds. gravel, \$38.48..... | | | 48 | 84 | | |
| $\frac{3}{4}$ cord posts, \$3.69 ; 650 bricks, \$4.85.... | | | | 8 | 54 | |
| 2 yds. sand, \$1.40 ; 1 bend, 75c. ; 1 red globe, 22c..... | | | 2 | 37 | | |
| Labor | | 196 | 20 | | | |
| | | | | 366 | 24 | |
| <i>Bay Street, Front to Esplanade.</i> | | | | | | |
| Contract work..... | 1,327 | 50 | | | | |
| Inspection, \$58.50 ; labor, \$20 | | 78 | 50 | | | |
| | | | | 1,406 | 00 | |
| <i>Colborne Street, Church to West Market St.</i> | | | | | | |
| Contract work..... | | | | 67 | 50 | |
| <i>Clarence Square, North, East and South Sides.</i> | | | | | | |
| Contract work. | | | | 137 | 10 | |
| <i>Bolton Avenue, Queen to Gerrard.</i> | | | | | | |
| Contract work..... | | | | 395 | 08 | |
| <i>Carried forward</i> | | | | 339,830 | 99 | 377,144 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 339,830 | 99 | 377,144 | 42 |
| <i>Clinton Street, Mansfield to College.</i> | | | | | | |
| Contract work..... | 897 | 30 | | | | |
| Inspection, \$45; labor, \$15..... | 60 | 00 | | | | |
| | | | 957 | 30 | | |
| <i>Carlisle Street, St. Patrick to 376 ft. North:</i> | | | | | | |
| 650 bricks, \$4.85; 2 bbls. cement, \$5.18; 1½ yds. sand, \$1.05 | 11 | 08 | | | | |
| 1 bend, 75c.; 3 gals. coal oil, 52c..... | 1 | 27 | | | | |
| Contract work..... | 502 | 87 | | | | |
| Inspection, \$28; labor, \$49.92 | 77 | 92 | | | | |
| | | | 593 | 14 | | |
| <i>Euclid Avenue, Arthur to Robinson.</i> | | | | | | |
| 2,000 bricks, \$15; 6½ bbls. cement, \$15.27; 1 culvert top, \$5..... | 35 | 27 | | | | |
| Sand, pipe, bends, etc..... | 8 | 88 | | | | |
| Contract work..... | 2,312 | 09 | | | | |
| Inspection, \$140; labor, \$95.36 | 235 | 36 | | | | |
| | | | 2,591 | 60 | | |
| <i>Florence Street, Dufferin to Brock.</i> | | | | | | |
| 2,081 ft. lumber, \$25.21; 1,725 bricks, \$12.94..... | 38 | 15 | | | | |
| 7 bbls. cement, \$18.13; 4 culvert traps, \$20 | 38 | 13 | | | | |
| Pipe, sand, bends, etc..... | 15 | 18 | | | | |
| Contract work..... | 1,416 | 06 | | | | |
| Inspection, \$80; labor, \$146.17 | 226 | 17 | | | | |
| | | | 1,733 | 69 | | |
| <i>Gwynne Avenue, King to Queen.</i> | | | | | | |
| Contract work..... | | | 169 | 50 | | |
| <i>Lorne Street, Front to Esplanade.</i> | | | | | | |
| 1 bbl. cement | 2 | 59 | | | | |
| Contract work..... | 821 | 70 | | | | |
| Inspection, \$42; labor, \$28.54 | 70 | 54 | | | | |
| | | | 894 | 83 | | |
| <i>Maple Grove Avenue, Brock to O'Hara.</i> | | | | | | |
| Contract work | 573 | 30 | | | | |
| Inspection, \$48; labor, \$25.31 | 73 | 31 | | | | |
| | | | 646 | 61 | | |
| <i>McCaul Street, Queen to College.</i> | | | | | | |
| Contract work..... | | | 478 | 74 | | |
| <i>Carried forward</i> | | | 347,896 | 40 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|-------|---------|----|---------|----|
| <i>Brought forward</i> | | | 347,896 | 40 | 377,144 | 42 |
| <i>Nassau Street, Bathurst to Lippincott.</i> | | | | | | |
| $\frac{3}{4}$ cord blocks..... | | 3 83 | | | | |
| Contract work..... | 395 | 10 | | | | |
| Inspection, \$7.50; labor, \$7.49 | 14 | 99 | | | | |
| | | | 413 | 92 | | |
| <i>Oxford Street, Augusta to Lippincott.</i> | | | | | | |
| 2,075 bricks, \$15.57; 6 $\frac{1}{2}$ bbls. cement, \$16.83 | | 32 40 | | | | |
| 2,161 ft. lumber, \$26.07; 6 yds. sand, \$4.20 | | 30 27 | | | | |
| 200 lbs. nails, \$4.16; bends, etc., \$3.02.... | | 7 18 | | | | |
| Contract work | 1,040 | 00 | | | | |
| Inspection, \$48.50; labor, \$190.48 | 238 | 98 | | | | |
| | | | 1,348 | 83 | | |
| <i>Queen Street, Gwynne to Roncesvalles.</i> | | | | | | |
| Contract work | | | 727 | 56 | | |
| <i>Queen Street, Niagara to Gladstone.</i> | | | | | | |
| 6,000 ft. lumber, \$70.98; 450 lbs. nails, \$7.28 | | 78 26 | | | | |
| $\frac{1}{2}$ bbl. cement, \$1.18; 1 street Y. gully, \$25.50 | | 26 68 | | | | |
| Contract work | 4,123 | 81 | | | | |
| Inspection, \$162.50; labor, \$49.98 | 212 | 48 | | | | |
| | | | 4,441 | 23 | | |
| <i>Russell Street, Spadina to St. George.</i> | | | | | | |
| 600 bricks, \$4.50; 3 bbls. cement, \$7.77; 2 yds. sand, \$1.40 | | 13 67 | | | | |
| Contract work | 960 | 00 | | | | |
| Inspection, \$65; labor, \$77.58 | 142 | 58 | | | | |
| | | | 1,116 | 25 | | |
| <i>Rolyat Street, Dundas to Grove.</i> | | | | | | |
| 1,700 bricks, \$12.75; 6 bbls. cement, \$15.54; nails, \$1.04 | | 29 33 | | | | |
| 1,566 ft. lumber, \$19.05; 3 $\frac{1}{4}$ yds. sand, \$2.28 | | 21 33 | | | | |
| Pipe, bends, etc. | | 2 63 | | | | |
| Contract work | 923 | 68 | | | | |
| Inspection, \$55.50; labor, \$101.93 | 157 | 43 | | | | |
| | | | 1,134 | 40 | | |
| <i>Spadina Avenue, Queen to Adelaide.</i> | | | | | | |
| 1,825 bricks, \$13.69; 8 bbls. cement, \$20.72 | | 34 41 | | | | |
| 5 $\frac{1}{2}$ yds. sand, \$3.85; 4 ft. pipe, 60c.; coal oil, 35c. | | 4 80 | | | | |
| Contract work | 800 | 00 | | | | |
| Inspection, \$93; labor, \$165.31 | 258 | 31 | | | | |
| | | | 1,097 | 52 | | |
| <i>Carried forward</i> | | | 358,176 | 11 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 358,176 | 11 | 377,144 | 42 |
| <i>Sully Crescent, Sully to Shaw.</i> | | | | | | |
| Contract work | 785 | 70 | | | | |
| Inspection | 26 | 50 | | | | |
| Labor | 24 | 53 | | | | |
| | | | 836 | 73 | | |
| <i>Sackville Street, Gerrard to Carlton.</i> | | | | | | |
| 10 bbls. cement, \$25.90; 78 ft. lumber, \$1.55; nails, 18c. | 27 | 63 | | | | |
| 1,500 bricks, \$11.25; 1 cord blocks, \$5.10; 6 yds. sand, \$5.22. | 21 | 57 | | | | |
| 8 ft. pipe | 2 | 20 | | | | |
| Contract work | 1,230 | 25 | | | | |
| Inspection, \$49.50; labor, \$56.32. | 105 | 82 | | | | |
| | | | 1,387 | 47 | | |
| <i>Scollard Street, Yonge to Hazelton.</i> | | | | | | |
| Contract work | | | 276 | 56 | | |
| <i>Shaw Street, Queen to Arthur.</i> | | | | | | |
| Contract work | | | 441 | 35 | | |
| <i>Walmer Road, Lowther to Castle.</i> | | | | | | |
| Contract work | | | 141 | 70 | | |
| <i>West Lodge Avenue, Marion to 1,145 ft. N.</i> | | | | | | |
| 1,844 ft. lumber, \$22.43; $\frac{1}{4}$ cord blocks, \$1.28; nails, \$4.16 | 27 | 87 | | | | |
| 650 bricks, \$4.88; 2 culvert traps, \$10; 2 $\frac{1}{2}$ bbls. cement, \$6.47 | 21 | 35 | | | | |
| Moving hydrant | 10 | 51 | | | | |
| Sand, bends and pipe | 2 | 98 | | | | |
| Contract work | 1,566 | 09 | | | | |
| Inspection, \$49; labor, \$86.56 | 135 | 56 | | | | |
| | | | 1,764 | 36 | | |
| <i>Bathurst Street, Front to Niagara.</i> | | | | | | |
| Contract work | | | 376 | 00 | | |
| <i>Elliott Street, Bolton to Broadview.</i> | | | | | | |
| Contract work | | | 123 | 90 | | |
| <i>Humbert Street, Dundas to Dovercourt.</i> | | | | | | |
| Contract work | | | 103 | 70 | | |
| <i>Carried forward</i> | | | 363,627 | 88 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|----|-----|---------|-----|---------|----|
| <i>Brought forward</i> | | | 363,627 | 88 | 377,144 | 42 |
| <i>Murray Street, Caer Howell to North End.</i> | | | | | | |
| Contract work | | | 141 | 30 | | |
| <i>St. Patrick Street, Bathurst to Denison.</i> | | | | | | |
| Contract work | | | 130 | 00 | | |
| GRAVEL PAVEMENTS. | | | | | | |
| <i>Beaconsfield Avenue, Queen to Afton.</i> | | | | | | |
| Contract work | | | 158 | 30 | | |
| <i>Brock Avenue, Queen to Dundas.</i> | | | | | | |
| Contract work | | | 467 | 56 | | |
| <i>Cowan Avenue, King to Queen.</i> | | | | | | |
| Contract work | | | 379 | 45 | | |
| <i>Collahie Street, Gladstone to Beaconsfield.</i> | | | | | | |
| 26,404 ft. lumber, \$33.23 ; 2 cord posts, \$8.80..... | | 42 | 03 | | | |
| 308 yds. gravel, \$339.57 ; 100 lbs. spikes, \$2.85..... | | 342 | 42 | | | |
| Use of roller, \$6 ; coal oil, etc., 60c..... | | 6 | 60 | | | |
| Inspection, \$3 ; labor, \$164.04 | | 167 | 04 | | | |
| | | | | 558 | 09 | |
| <i>Dunn Avenue, Queen Street to the Lake.</i> | | | | | | |
| Contract work | | 389 | 44 | | | |
| Reduction for over-time | | 105 | 00 | | | |
| | | | | 284 | 44 | |
| <i>Dufferin Street, Peel to Dundas.</i> | | | | | | |
| Contract work | | | 294 | 50 | | |
| <i>Dovercourt Road, Queen to Dundas.</i> | | | | | | |
| Contract work | | | 264 | 69 | | |
| <i>Foxley Street, Dundas to Dovercourt Road.</i> | | | | | | |
| Contract work | | | 122 | 40 | | |
| <i>Lansdowne Avenue, Queen to Union.</i> | | | | | | |
| Contract work | | | 322 | 89 | | |
| <i>Carried forward</i> | | | 366,751 | 50 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|----|-------|---------|---------|---------|------------|
| <i>Brought forward</i> | | | 366,751 | 50 | 377,144 | 42 |
| <i>Lisgar Street, Afton to Dundas.</i> | | | | | | |
| Contract work | | | 124 | 50 | | |
| <i>McDonnell Avenue, Queen to 2,826 ft. N.</i> | | | | | | |
| Contract work | | | 392 | 60 | | |
| <i>O'Hara Avenue, Queen to 1,455 ft. North.</i> | | | | | | |
| Contract work..... | | | 196 | 80 | | |
| <i>Peel Avenue Gladstone to Dufferin.</i> | | | | | | |
| Contract work..... | | | 50 | 80 | | |
| MACADAM PAVEMENTS. | | | | | | |
| <i>Crescent Road, Yonge to Rosedale Road.</i> | | | | | | |
| 9 bbls. cement, \$23.31 ; 2,000 bricks, \$15 ; 462 ft. lumber, \$5.51..... | | 43 | 82 | | | |
| 3 culvert traps, \$15 ; sand, \$3.48 ; pipe, \$7.50 ; nails, 6c..... | | 26 | 04 | | | |
| Contract work..... | | 3,132 | 54 | | | |
| Inspection, \$188.40 ; labor, \$173.46..... | | 361 | 46 | | | |
| | | | | 3,563 | 86 | |
| <i>Davenport Road Yonge to Hazelton Avenue.</i> | | | | | | |
| Contract work..... | | | | 455 | 60 | |
| <i>Davenport Road Avenue Road to 636 ft. West.</i> | | | | | | |
| 237 ft. stone kerb..... | | 78 | 93 | | | |
| 36 yds. granite..... | | 63 | 00 | | | |
| | | | | 141 | 93 | |
| <i>Dufferin Street, Dundas to Lindsay.</i> | | | | | | |
| 3,276 bricks, \$24.56 ; 10 bbls. cement, \$25.90..... | | 50 | 46 | | | |
| 1,750 ft. lumber, \$21.07 ; 2 cords cedar blocks, \$10.20..... | | 31 | 27 | | | |
| 7 yds. sand, \$4.90 ; 150 lbs. nails, \$3.12 ; 62 ft. pipe, \$9.30..... | | 17 | 32 | | | |
| 3 gals. coal oil, 52c ; pounder, 25c ; 8 bends, \$6..... | | 6 | 77 | | | |
| Contract work... | | 3,728 | 64 | | | |
| Inspection, \$258.50 ; labor, \$309.29..... | | 567 | 79 | | | |
| | | | | 4,402 | 25 | |
| <i>Carried forward</i> | | | | 376,079 | 84 | 377,144 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|-------|---------|----|---------|----|
| <i>Brought forward</i>..... | ..... | ..... | 376,079 | 84 | 377,144 | 42 |
| <i>Division Street, Spadina to Huron.</i> | | | | | | |
| 1,200 bricks, \$8.99; 5 bbls. cement, \$12.95; | | | | | | |
| 2½ yds. sand, \$1.76 | 23 | 70 | | | | |
| Pipe, bends, etc | 6 | 62 | | | | |
| Contract work | 999 | 90 | | | | |
| Inspector, \$85; labor, \$87.01 | 172 | 01 | | | | |
| | | | 1,202 | 23 | | |
| <i>Elgin Avenue, Avenue Road to Bedford.</i> | | | | | | |
| 800 bricks, \$5.69; 4 bbls. cement, \$9.40; | | | | | | |
| sand, 52c; bends, \$1.50 | 17 | 11 | | | | |
| Contract work | 2,073 | 92 | | | | |
| Inspection, \$96.00; labor, \$80.44 | 176 | 44 | | | | |
| | | | 2,267 | 47 | | |
| <i>Elm Street, Yonge to University.</i> | | | | | | |
| 452 lbs. iron, \$11.30; 8 cords posts, \$35.20; | | | | | | |
| nails, \$1.38 | 47 | 88 | | | | |
| 62.50 toise macadam, \$625; 12 bbls. | | | | | | |
| cement, \$30.08; spikes, \$13.20 | 668 | 28 | | | | |
| 2,228 ft. lumber, \$24.68; 162 yds. gravel, | | | | | | |
| \$119.88 | 144 | 56 | | | | |
| 156 yds. sand, \$135.72; 1,838 ft. kerb, | | | | | | |
| \$219.21 | 354 | 93 | | | | |
| 2,000 bricks, \$15; 5,520 lbs. castings, | | | | | | |
| \$82.81 | 97 | 81 | | | | |
| Use of roller, \$152.10; 30 ft. pipe, \$4.50. | 156 | 60 | | | | |
| Tools | 10 | 35 | | | | |
| Labor | 1,253 | 53 | | | | |
| | | | 2,733 | 94 | | |
| <i>Front Street, Sherbourne to Trinity.</i> | | | | | | |
| 2,190 lbs. castings, \$32.85; 16 bbls. | | | | | | |
| cement, \$41.44 | 74 | 29 | | | | |
| 116 ft. pipe, \$17.40; 2,000 bricks, \$15; | | | | | | |
| 6 yds. gravel, \$4.74 | 37 | 14 | | | | |
| 695 ft. lumber, \$8.37; 4 culvert traps, \$20; | | | | | | |
| 10 yds. sand, \$8.70 | 37 | 07 | | | | |
| 52 bends, 62c.; nails, 22c.; coal oil, 70c.; | | | | | | |
| posts, 62c. | 2 | 14 | | | | |
| Contract work | 4,610 | 83 | | | | |
| Inspection, \$155; labor, \$228.20 | 383 | 20 | | | | |
| | | | 5,144 | 67 | | |
| <i>Front Street, George to Sherbourne.</i> | | | | | | |
| 1,000 bricks, \$7.50; 2 bbls. cement, \$5.18 | 12 | 68 | | | | |
| Sand and gravel | 8 | 22 | | | | |
| Contract work | 732 | 36 | | | | |
| Inspection, \$75; labor, \$79.86 | 154 | 86 | | | | |
| | | | 908 | 12 | | |
| <i>Carried forward</i>..... | ..... | ..... | 388,336 | 27 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 388,336 | 27 | 377,144 | 42 |
| <i>First Avenue, Broadview to Logan.</i> | | | | | | |
| 11 bbls. cement, \$28.49; 2,000 bricks, \$15 | 43 | 49 | | | | |
| 2 culvert traps, \$10; pipe, \$3.60; sand, | | | | | | |
| \$3.48..... | 17 | 08 | | | | |
| Contract work | 5,286 | 63 | | | | |
| Inspection, \$204; labor, \$188.43 | 392 | 43 | | | | |
| | | | 5,739 | 63 | | |
| <i>Gerrard Street, Yonge to Jarvis.</i> | | | | | | |
| 50 yds. granite, \$75; 6 cords posts, \$29.52; | | | | | | |
| 1,406 ft. lumber, \$21.81 | 126 | 33 | | | | |
| 86 toise macadam, \$857.50; 2,280 lbs. | | | | | | |
| castings, \$34.20; nails, \$2.72..... | 894 | 42 | | | | |
| 15 bbls. cement, \$38.85; 820 lbs. spikes, | | | | | | |
| \$26.03; use of roller, \$178.20 | 243 | 08 | | | | |
| 2,600 bricks, \$19.50; 11,560 ft. kerb, | | | | | | |
| \$159.04; 86 yds. stone, \$129..... | 307 | 54 | | | | |
| 280 yds. sand, \$248.82; 221 lbs. iron, | | | | | | |
| \$5.52; 1 culvert trap, \$5 | 259 | 34 | | | | |
| Tools, etc. | 38 | 54 | | | | |
| Labor | 1,476 | 79 | | | | |
| | | | 3,346 | 04 | | |
| <i>Grenville Street, Yonge to Surrey Place.</i> | | | | | | |
| 977 ft. lumber, \$12.08; 278 yds. sand, | | | | | | |
| \$240.12; storage, \$10 | 262 | 20 | | | | |
| 25½ bbls. cement, \$65.40; 276 ft. pipe, | | | | | | |
| \$44.40; repairs, \$16.05..... | 125 | 85 | | | | |
| 316 yds. granite, \$559.14; rubble, \$112.33; | | | | | | |
| 16 culvert traps, \$80. | 731 | 47 | | | | |
| 11,970 lbs. castings, \$179.55; 10,100 bricks, | | | | | | |
| \$100.95 | 280 | 50 | | | | |
| 3,117 ft. 9 in. stone kerbing, \$819.53; 1,314½ | | | | | | |
| yds. stone, \$1,433.12..... | 2,257 | 65 | | | | |
| Teaming, \$128.55; macadam, \$743.50; | | | | | | |
| tiles, \$71.50..... | 943 | 55 | | | | |
| Customs & freight, \$333.05; use of roller, | | | | | | |
| \$207.00 | 540 | 05 | | | | |
| Tar paper, \$3.00; Coal oil, \$4.96; ¼ cord | | | | | | |
| posts, \$1.23..... | 9 | 19 | | | | |
| Bends, junctions, etc..... | 4 | 27 | | | | |
| Inspection, \$3.00; labor, \$4,127.03..... | 4,130 | 03 | | | | |
| Cr. | 9,284 | 76 | | | | |
| Customs refund | 3 | 30 | | | | |
| | | | 9,281 | 46 | | |
| <i>Harbord Street, St. George to Huron.</i> | | | | | | |
| Contract work..... | | | 176 | 20 | | |
| <i>Carried forward</i> | | | 406,879 | 60 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 406,879 | 60 | 377,144 | 42 |
| <i>Langley Avenue, Broadview to Logan.</i> | | | | | | |
| 471 $\frac{3}{4}$ yds. gravel, \$449.07 ; 182 ft. lumber, \$2.17..... | 451 | 24 | | | | |
| 83.72 toise macadam. \$845.17 ; 2 bbls. ce- ment, \$4.70..... | 849 | 87 | | | | |
| Use of roller..... | 105 | 60 | | | | |
| Spikes, 23c ; coal oil, 42c ; 1 cord blocks, \$4.60..... | 5 | 25 | | | | |
| Labor | 589 | 38 | | | | |
| | | | 2,001 | 34 | | |
| <i>McPherson Avenue, Yonge to 1,330 ft. West.</i> | | | | | | |
| Contract work..... | 1,664 | 63 | | | | |
| Inspection | 72 | 00 | | | | |
| | | | 1,736 | 63 | | |
| <i>Parliament Street, Queen to Gerrard.</i> | | | | | | |
| 1,864 ft. lumber, \$22.20 ; 300 ft. kerb, \$4.05 ; 1 bbl. cement, \$2.35..... | 28 | 60 | | | | |
| 571 lbs. castings, \$8.55 ; 50 lbs. nails, 92c | 9 | 47 | | | | |
| Contract work..... | 5,600 | 00 | | | | |
| Inspection, \$204.50 ; labor, \$102.48..... | 306 | 98 | | | | |
| | | | 5,945 | 05 | | |
| <i>Pembroke Street, Shuter to Wilton Ave.</i> | | | | | | |
| 288 ft. lumber. \$3.50 ; 11 bbls. cement, \$28.49 ; nails, 18c..... | 32 | 17 | | | | |
| 1,500 bricks, \$11.25 ; posts, \$1.23 ; pipe, \$3.00..... | 15 | 48 | | | | |
| Contract work..... | 1,883 | 20 | | | | |
| Inspection, \$109 ; labor, \$139.04..... | 248 | 04 | | | | |
| | | | 2,178 | 89 | | |
| <i>Queen's Park Drive, Queen's Park Crescent to Bloor Street.</i> | | | | | | |
| Final drawback..... | 283 | 50 | | | | |
| Cr. | 283 | 50 | | | | |
| Sodding.. .. | 152 | 43 | | | | |
| | | | 131 | 07 | | |
| <i>St. Alban's Street, Queen's Park Crescent to Surrey Place.</i> | | | | | | |
| Contract work..... | | | 63 | 60 | | |
| <i>Sumach Street, Gerrard to Wellesley.</i> | | | | | | |
| 300 ft. lumber, \$3.65 ; 570 lbs. castings, \$8.55 ; Sand, \$1.74..... | 13 | 94 | | | | |
| 639 ft. kerbing, \$21.87 ; 500 bricks, \$3.75 teaming, \$5..... | 30 | 62 | | | | |
| <i>Carried forward</i> | 44 | 56 | 417,936 | 18 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | 44 | 56 | 417,936 | 18 | 377,144 | 42 |
| 7 bbls. cement, \$18.13 ; 26 ft. pipe, \$3.90 | 22 | 03 | | | | |
| Contract work..... | 4,510 | 80 | | | | |
| Inspection, \$172.50 ; labor \$107.55..... | 280 | 05 | | | | |
| | | | 4,857 | 44 | | |
| <i>Sackville Street, Winchester to Wellesley.</i> | | | | | | |
| 301 ft. lumber, \$3.64 ; 1 bbl. cement, \$2.59 ; nails, 27c..... | 6 | 50 | | | | |
| Contract work..... | 2,688 | 61 | | | | |
| Inspection, \$113 ; labor, \$47.07..... | 150 | 07 | | | | |
| | | | 2,845 | 18 | | |
| <i>Sackville Street, Wellesley to 256 ft. North.</i> | | | | | | |
| Contract work..... | 547 | 27 | | | | |
| Inspection, \$63 ; labor, \$15.98..... | 78 | 98 | | | | |
| | | | 626 | 25 | | |
| <i>Spadina Avenue, King to Front Street.</i> | | | | | | |
| 7,995 ft. kerbing, \$693.71 ; 41 yds. stone, \$36.94..... | 730 | 65 | | | | |
| Teaming..... | 63 | 95 | | | | |
| Labor..... | 57 | 82 | | | | |
| | | | 852 | 42 | | |
| <i>Spruce Street, Sumach to River.</i> | | | | | | |
| 1 bbl. cement, \$2.35 ; use of roller, \$13.20 | 15 | 55 | | | | |
| Contract work..... | 1,197 | 00 | | | | |
| Inspection, \$66 ; labor, \$111.95..... | 177 | 95 | | | | |
| | | | 1,390 | 50 | | |
| <i>South Drive, Running South to Glen Road.</i> | | | | | | |
| 6 bbls. cement, \$15.54 ; 4 culvert traps, \$20 ; nails, 46c..... | 36 | 00 | | | | |
| 170 ft. lumber, \$2.06 ; 3,000 bricks, \$22.50 | 24 | 56 | | | | |
| 4 yds sand, \$3.48 ; 60 ft. pipe, \$9.. .. | 12 | 48 | | | | |
| Contract work..... | 800 | 00 | | | | |
| Inspection, \$153 ; labor, \$104.42..... | 257 | 42 | | | | |
| | | | 1,130 | 46 | | |
| <i>Sword Street, Gerrard to Spruce.</i> | | | | | | |
| 33 toise macadam, \$330 ; 2 bbls. cement, \$5.18..... | 335 | 18 | | | | |
| 500 bricks, \$3.75 ; 3,534 ft. lumber, \$54.79 | 58 | 54 | | | | |
| Use of roller, \$20.40 ; 38 yds. gravel, \$30.02 | 50 | 42 | | | | |
| 74 yds. sand, \$64.38 ; 2 cord posts, \$9.84. | 74 | 22 | | | | |
| Coal oil, 18c. ; iron, \$1.47 ; 1 keg spikes, \$3.75..... | 5 | 40 | | | | |
| Inspection, \$3.50 ; labor, \$329.51..... | 333 | 01 | | | | |
| | | | 856 | 77 | | |
| <i>Carried forward</i> | | | 430,495 | 20 | 377,144 | 42 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|---------|----|---------|----|
| <i>Brought forward</i> | | | 430,495 | 20 | 377,144 | 42 |
| <i>Victor Avenue, Broadview to Logan.</i> | | | | | | |
| 3,000 ft. lumber, \$35.01 ; 200 lbs. nails, \$4 ; cement, \$7.05 | 46 | 06 | | | | |
| Contract work | 2,400 | 00 | | | | |
| Inspection, \$193.50 ; labor, \$73.50 | 267 | 00 | | | | |
| | | | 2,713 | 06 | | |
| <i>Tyndall Avenue, King to Springhurst.</i> | | | | | | |
| Contract work | | | 312 | 84 | | |
| <i>Washington Avenue, Spadina to Huron.</i> | | | | | | |
| 275 bricks, \$2.05 ; 1 bbl. cement, \$2.59 .. | 4 | 64 | | | | |
| 1,300 ft. lumber, \$15.61 ; sand, 35c | 15 | 96 | | | | |
| Contract work | 1,158 | 30 | | | | |
| Inspection, \$105 ; labor, \$59.89 | 164 | 89 | | | | |
| | | | 1,343 | 79 | | |
| <i>Wellesley Crescent, Sherbourne to Jarvis.</i> | | | | | | |
| 128 lbs. iron, \$2.11 ; 5 lbs. nails, 15c | | | 2 | 23 | | |
| <i>Wellesley Street, Parliament to Sumach.</i> | | | | | | |
| 6 bbls. cement, \$14.58 ; 1,500 bricks, \$10.75 | 25 | 33 | | | | |
| 2,221 ft. lumber, \$26.79 ; 1 cul. trap, \$5. 400 ft. kerb, \$5.40 ; 30 ft. pipe, \$4.50 ; sand and nails, \$2.84 | 31 | 79 | | | | |
| Contract work | 12 | 74 | | | | |
| Inspection, \$195.50 ; labor, \$127.17 | 2,462 | 17 | | | | |
| | 322 | 67 | | | | |
| | | | 2,854 | 70 | | |
| TAMARAC PAVEMENTS. | | | | | | |
| <i>Scott Street, Esplanade to Front.</i> | | | | | | |
| 3,000 bricks, \$21 ; 22 yds. gravel, \$17.38. | 38 | 38 | | | | |
| 13 bbls. cement, \$37.67 ; 1½ toise macadam, \$15. | 52 | 67 | | | | |
| 8,540 ft. lumber, \$101.71 ; nails and spikes, \$5.27 ; coal oil, 28c. | 107 | 26 | | | | |
| Asphalt pavement at intersection of Front Street | 252 | 75 | | | | |
| Contract work | 3,376 | 23 | | | | |
| Inspection, \$79 ; labor, \$155.50 | 234 | 50 | | | | |
| | | | 4,061 | 79 | | |
| | | | | | 441,783 | 64 |
| <i>Carried forward</i> | | | | | 818,928 | 06 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|----|--------|---------|----|
| <i>Brought forward</i> | | | | | 818,928 | 06 |
| L. I. Sewers, omitted in carrying forward on page 101 | | | | | 8,496 | 32 |
| SUMMARY. | | | | | | |
| <i>Local Improvement wooden sidewalks.</i> | | | | | | |
| 1,809,501 ft. 2 in. plank..... | 22,277 | 75 | | | | |
| 38,810 ft. 3 x 4-in. plank..... | 560 | 58 | | | | |
| 723,137 ft. 4 x 4-in. scantling..... | 7,737 | 89 | | | | |
| 68,459 lbs. 5-in. nails..... | 1,413 | 79 | | | | |
| 783 lbs. 7-in. spikes..... | 24 | 57 | | | | |
| Waterworks charges..... | 3,551 | 10 | | | | |
| 16 cord cedar posts..... | 72 | 54 | | | | |
| 23 bbls cement..... | 56 | 59 | | | | |
| Sundries, bricks, etc..... | 182 | 17 | | | | |
| Labor | 10,476 | 68 | | | | |
| | | | | | 46,353 | 66 |
| <i>Brick Sidewalks.</i> | | | | | | |
| 224 ft. lumber..... | 2 | 71 | | | | |
| Sundries, (bricks & nails)..... | 144 | 73 | | | | |
| Inspection, \$84; labor, \$52.50..... | 136 | 50 | | | | |
| Contract | 1,661 | 90 | | | | |
| | | | | 1,945 | 84 | |
| <i>Concrete sidewalks.</i> | | | | | | |
| Damages..... | 156 | 50 | | | | |
| 434 bbls. cement..... | 1,172 | 13 | | | | |
| 36 ft. 9-in. pipe..... | 5 | 40 | | | | |
| 341 yds. sand and gravel..... | 255 | 92 | | | | |
| Water works charges..... | 285 | 07 | | | | |
| 1,268 ft. lumber..... | 24 | 28 | | | | |
| Sundries (bricks, macadam etc.)..... | 499 | 87 | | | | |
| Inspection | 1,402 | 49 | | | | |
| Labor..... | 1,687 | 71 | | | | |
| Contract | 27,403 | 55 | | | | |
| | | | | 32,892 | 92 | |
| | | | | | 34,838 | 76 |
| Personal and departmental accounts..... | | | | | 36,707 | 46 |
| Total..... | | | | | 945,324 | 26 |

LOCAL IMPROVEMENT BRICK SIDEWALKS, 1899.

| Street. | Side. | From | To | |
|---------------------|-------------|-----------------------|-----------------------|----------|
| | | | | \$ c. |
| Bay | East | Front | Esplanade | 523 20 |
| College | North | Huron | Spadina | 315 77 |
| Elm | South | Chestnut | Elizabeth | 2 93 |
| Richmond | " | Victoria | Yonge | 334 64 |
| Simcoe | East | Wellington | 330 ft. south | 83 20 |
| Wellington | South | 98 ft. 10 in. e. York | 164 ft. 4 in. w. Bay. | 627 59 |
| Wilton Crescent ... | North | Sherbourne | 184 ft. west | 58 51 |
| | | | | 1,945 84 |

LOCAL IMPROVEMENT CONCRETE SIDEWALKS, 1899.

| Street. | Side. | From | To | |
|--------------------|-------------|----------------------|-----------------------|----------|
| | | | | \$ c. |
| Adelaide | South | Yonge | Bay | 777 17 |
| " | " | Bay | York | 1,912 21 |
| Avenue Rd. | East | Bloor | Davenport | 18 00 |
| " | West | " | " | 926 14 |
| Adelaide | North | Yonge | Freehold Loan B'd'g | 286 72 |
| Bernard Av. | " | Avenue Rd. | Bedford | 303 07 |
| Bay | East | 50 ft. n. of Melinda | 50 ft. s. of Melinda. | 231 00 |
| Bathurst | " | St. Patrick | Roseberry | 351 21 |
| Bay | West | 144 ft. n. of King. | Queen | 1,344 47 |
| " | " | King | Wellington | 386 72 |
| Bleecker | East | Wellesley | Howard | 1,198 18 |
| Classic Av. | Both | Huron | Spadina | 586 38 |
| Carlton | North | Bleecker | Ontario | 316 87 |
| Church | East | King | Front | 786 70 |
| Front | South | 100 ft. w. of York. | 52 ft. e. of Simcoe.. | 610 12 |
| " | " | Scott | Church | 902 62 |
| Homewood Av. | Both | Carlton | Wellesley | 2,895 01 |
| Huron | East | Bloor | Prince Arthur | 396 38 |
| James | " | Queen | 131 ft. 8 in. north.. | 246 33 |
| Jarvis | " | King | Fred Victor Mission | 2,151 39 |
| Madison Av. | Both | Bloor | Bernard | 2,587 15 |
| Orford | " | Clara | 119 ft. west | 84 26 |
| " | " | Parliament | 243 ft. east | 298 26 |
| Prince Arthur | North | St. George | 190 ft. west | 186 21 |
| " | " | Avenue Rd. | Bedford | 563 74 |
| Queen | South | Simpson | 142 ft. west | 11 00 |
| " | " | Bay | York | 1,063 67 |

| Street. | Side. | From | To | |
|--------------------|----------|--------------------|------------------------|-----------|
| Queen | North .. | Tecumseth | 100 ft. w. of Niagara | 1,589 12 |
| " | " .. | Gwynne | 43 ft. 6 in. e. O'Hara | 2,118 81 |
| " | " .. | Yonge | Sherbourne | 3,310 40 |
| " | South .. | East of No. 674... | West of No. 684... | 187 33 |
| Spadina Rd..... | Both .. | Bloor | Bernard | 3 00 |
| St. George | West .. | Prince Arthur Av. | 171 ft. north | 158 40 |
| Sherbourne..... | East .. | Wilton | Gerrard | 376 55 |
| Sussex Av | North .. | St. George | Huron | 293 72 |
| St. George | East .. | Lowther | 200 ft. north | 153 56 |
| " | " .. | College | Hoskin | 1,082 56 |
| Willcock | Both .. | Huron | Spadina | 709 51 |
| " | South .. | St. George | Huron | 295 79 |
| Walmer Rd | West .. | Bloor | Lowther | 662 90 |
| Wellesley Cres.... | South .. | Sherbourne..... | T. Long's property. | 46 81 |
| Yonge | West .. | Yorkville | Davenport Rd. | 549 48 |
| | | Cr. | | 32,898 92 |
| Temperance | South .. | Yonge | 100 ft. west | 6 00 |
| | | | | 32,892 92 |

LOCAL IMPROVEMENT WOODEN SIDEWALKS.

| Street. | Side. | From | To | |
|-------------------|----------|----------------------|---------------------|--------|
| | | | | \$ c. |
| Argyle..... | North .. | Lisgar | Northcote..... | 245 28 |
| Argyle..... | " .. | Gladstone | " | 73 06 |
| Abell | West .. | Queen | 362 ft. south | 70 99 |
| Afton..... | North .. | Lisgar | Beaconsfield..... | 154 40 |
| Avenue Place..... | South .. | Avenue Rd | Hazelton Av | 115 33 |
| Adelaide..... | North .. | Maude | Brant | 97 15 |
| Argyle..... | " .. | Dundas | Givens..... | 115 01 |
| " | " .. | Dovercourt Rd.... | Lisgar | 73 07 |
| Arthur | " .. | Crawford | Bellwoods | 294 68 |
| Amelia | " .. | Sackville | Sumach | 203 08 |
| Albert | " .. | James | Chestnut..... | 216 62 |
| Alexander | South .. | 85 ft. east of Yonge | Church | 200 91 |
| Allen Ave..... | " .. | Broadview..... | Logan | 158 30 |
| Augusta | West .. | St. Patrick..... | Nassau | 386 65 |
| " | " .. | Oxford | College | 113 92 |
| Argyle | South .. | Dundas | Dovercourt..... | 318 72 |
| Aberdeen | North .. | Ontario | 276 ft. east..... | 90 68 |
| Adelaide..... | South .. | Portland | 285 ft. east..... | 72 75 |
| Albert | " .. | Teraulay | Chestnut..... | 138 51 |

| Street. | Side. | From | To | \$ | c. |
|---------------------|-----------|-------------------|-----------------------|-----|----|
| Arthur | North .. | Bellwoods | Manning | 124 | 19 |
| Austin Av | " .. | Pape | 581 ft. east | 215 | 80 |
| Arthur | " .. | Crawford | Ossington | 243 | 68 |
| Austin | South .. | Pape | 615 ft. east | 4 | 76 |
| Bathurst | East .. | Farley | Adelaide | 172 | 84 |
| Baldwin | South .. | Beverley | McCaul | 229 | 25 |
| Bain | " .. | Pape | Carlaw | 119 | 48 |
| Bathurst | West .. | Bloor | Follis | 417 | 70 |
| Baldwin | South .. | Augusta | Kensington | 61 | 84 |
| Brunswick | East .. | Lowther | 130 ft. northerly .. | 34 | 61 |
| Beau and Elm | W. & N .. | Glen Rd | Jameson | 127 | 79 |
| Bellevue Pl | South .. | Denison | West end .. | 198 | 20 |
| Berkeley | East .. | Gerrard | 1st lane north | 42 | 48 |
| Belmont | North .. | Yonge | 361 ft. west | 57 | 01 |
| Beaconsfield | Both .. | Queen | Afton | 973 | 77 |
| Bowman | East .. | Carlton | East end | 82 | 08 |
| Bloor | South .. | North | 82 ft. east | 28 | 84 |
| Belmont | " .. | Yonge | McMurrich | 89 | 78 |
| Birch | " .. | " | Gange | 100 | 50 |
| Bismarek | North .. | Park Rd | East end | 79 | 78 |
| " | " .. | Yonge | Park Road | 124 | 56 |
| Bright | Both .. | King | Queen | 175 | 15 |
| Brant | West .. | " | Adelaide | 219 | 94 |
| Bloor | South .. | Major | Brunswick | 78 | 74 |
| Brookfield | Both .. | Queen | Humbert | 409 | 32 |
| Breadalbane | South .. | Surrey Pl | 154 ft. east | 58 | 67 |
| Blackmore La | North .. | Davenport | East end | 32 | 74 |
| Bloor | " .. | Bathurst | Markham | 78 | 79 |
| " | " .. | " | 171 ft. east | 91 | 64 |
| Breadalbane | South .. | Yonge | St. Vincent | 50 | 06 |
| Bond | East .. | Shuter | Gould | 236 | 45 |
| " | West .. | Wilton | Gerrard | 308 | 32 |
| Bathurst | " .. | King | McDonnell Sq | 120 | 54 |
| College | North .. | St. Clarens | Sheridan | 241 | 41 |
| " | South .. | Dovercourt | Rusholme | 109 | 96 |
| " | North .. | Rusholme | 130 ft. east | 27 | 82 |
| Chestnut | East .. | Albert | Agnes | 234 | 39 |
| Christopher | Both .. | Chestnut | University | 147 | 21 |
| Chippewa | East .. | Lake Shore | 1,093 ft. north | 428 | 51 |
| Chestnut | West .. | Christopher | Chestnut Pl | 104 | 83 |
| College | North .. | Huron | University | 282 | 38 |
| Charles | South .. | Church | 388 ft. west | 105 | 09 |
| Cherry | East .. | Front | Mill | 128 | 34 |
| Chestnut | " .. | Queen | Albert | 102 | 16 |
| Charlotte | West .. | King | Adelaide | 158 | 65 |
| Churchill | South .. | Dovercourt | Lakeview | 130 | 49 |
| Cottingham | North .. | Avenue Rd | Rathmally | 169 | 96 |
| Commercial La | " .. | Jarvis | Francis | 21 | 22 |
| Cottingham | " .. | Yonge | 473 ft. west | 110 | 27 |
| Cecil | South .. | Huron | Henry | 53 | 46 |
| Caer Howell | North .. | McCaul | University Av | 195 | 69 |

| Street. | Side. | From | To | |
|------------------------|-------------|-------------------------|-------------------------|--------|
| | | | | \$ c. |
| Davenport Rd | South . . | Hazelton Ave | 65 ft. west | 10 81 |
| " | North . . | Bedford | C. P. Railway | 172 31 |
| Danforth | South . . | Broadview | Pape | 615 01 |
| Dewson | North . . | Deleware | Concord | 61 24 |
| Defoe | " | Massey | Strachan | 32 49 |
| " | South . . | " | " | 39 38 |
| Delaney Cres. | Both . . | Brock | Wyndham | 328 42 |
| Division | " | Spadina | Huron | 287 43 |
| Dovercourt Rd. | West . . | Bloor | Shanley | 277 49 |
| " | East . . | " | Northumberland . . . | 85 69 |
| Dufferin | " | " | 600 ft. south | 117 12 |
| " | West . . | Dundas | College | 264 67 |
| " | East . . | College | Sylvan | 125 30 |
| " | West . . | S. of No. 390 | 200 ft. north | 33 63 |
| Dundas | South . . | Brock | St. Clarens | 175 10 |
| Duchess | North . . | Parliament | Berkeley | 86 56 |
| Dundas | " | Dovercourt | Coolmine Rd | 61 30 |
| " | South . . | Coolmine | Rusholme | 16 59 |
| " | West . . | Queen | 364 ft. north | 73 16 |
| Dufferin | " | 133 ft. n. of Muir . . | 1,341 ft. south | 44 57 |
| Dupont | North . . | Palmerston | Manning | 170 01 |
| Denison Sq. | " | Bellevue | Augusta | 76 25 |
| Euclid Av | East . . | Queen | Robinson | 102 13 |
| Eastern Av | North . . | Sumach | Sackville | 161 14 |
| Euclid | East . . | College | 748 ft. south | 288 75 |
| " | " | Robinson | Arthur | 494 92 |
| Elizabeth | " | 101 ft. n. of College . | Grenville | 28 62 |
| Edwin | West . . | North end | 210 ft. s. of William . | 251 72 |
| Elizabeth | East . . | Gerrard | Hayter | 60 70 |
| Euclid | West . . | Queen | Robinson | 292 11 |
| Eastern Av | South . . | St. Lawrence Sq. . . . | Water | 80 36 |
| Elliott | " | Broadview | Bolton | 206 84 |
| Euclid | East . . | N. limit of No. 261 . . | N. limit of No. 229 . . | 124 21 |
| Front | South . . | Trinity | Cherry | 160 03 |
| Frederic | West . . | King | Duke | 63 96 |
| Franklin | " | Irving | Royce | 112 37 |
| Florence | North . . | Brock | Sheridan | 90 45 |
| Fraser | West . . | King | 213 ft. south | 63 06 |
| Front | North . . | Parliament | Berkeley | 97 72 |
| " | " | Berkeley | Princess | 201 57 |
| Grange | South . . | Spadina | Vanauley | 137 44 |
| Gange | East . . | Cottingham | Birch | 60 74 |
| Gerrard | North . . | Parliament | Sackville | 204 50 |
| George | West . . | Front | King | 114 40 |
| " | East . . | Duke | Duchess | 112 91 |
| Gifford | Both . . | Spruce | Carlton | 267 67 |
| Gladstone | West . . | Dundas | Trafalgar | 371 14 |
| " | " | Trafalgar | Waterloo Av | 72 44 |
| Grange Rd. | North . . | Beverley | 328 ft. w. McCaul . . | 80 39 |
| Gladstone | East . . | Argyle | 325 ft. north | 135 61 |

| Street. | Side. | From | To | \$ | c. |
|-------------------|----------|----------------------|------------------------|-----|----|
| Gloucester | North .. | Yonge. | Church | 538 | 64 |
| Grange Av. | South .. | Vanauley | Esther. | 131 | 95 |
| Harbord | South .. | Bathurst | Markham | 56 | 55 |
| " | North .. | Manning | Clinton | 82 | 24 |
| " | " | Robert. | Spadina | 112 | 89 |
| Hayter | South .. | Mission Av. | Teraulay | 39 | 52 |
| Hackney | West .. | Woolsley | Grange | 156 | 20 |
| " | East .. | " | St. Patrick | 204 | 54 |
| Harrison | North .. | Dovercourt | Lakeview | 100 | 97 |
| " | " | Lakeview | Ossington | 110 | 68 |
| Harbord | South .. | Spadina | St. George | 22 | 33 |
| Herrick | Both .. | Lippincott | Borden | 118 | 32 |
| Howard | South .. | Ontario | Psrliaement | 175 | 13 |
| " | North .. | Glen Rd. | " | 310 | 52 |
| Howland Rd | West .. | Gerrard | Victor | 101 | 30 |
| Howland Av | North .. | Indian Rd. | 500 ft. east. | 87 | 85 |
| Huron | West .. | Cecil. | College | 207 | 87 |
| Huntley | " | Elm Av. | South Drive | 119 | 18 |
| Humbert | South .. | Dundas | Brookfield | 52 | 75 |
| James | West .. | Albert | 92 ft. s. of Louisa .. | 42 | 37 |
| " | East .. | " | Louisa. | 60 | 64 |
| Jameson | West .. | King. | Leopold | 157 | 65 |
| John | East .. | " | Richmond | 217 | 19 |
| " | " | Queen. | Grange Rd. | 390 | 96 |
| " | West .. | King | 114 ft. south | 32 | 06 |
| Kensington | West .. | St. Andrew's. | Baldwin | 90 | 47 |
| " | " | St. Patrick | 573 ft. north | 151 | 94 |
| King | " | Bathurst | Peter. | 689 | 35 |
| " | South .. | Massey | Strachan | 44 | 03 |
| " | North .. | Strachan | Walnut | 211 | 94 |
| " | " | Dufferin. | Dunn | 359 | 06 |
| Knox Av. | East .. | Queen | Eastern | 110 | 69 |
| Lisgar | East .. | Queen. | Afton | 514 | 90 |
| Larch | Both .. | St. Patrick | Grange | 130 | 87 |
| Lennox | " | Lippincott | Bathurst. | 205 | 71 |
| Lewis | " | Queen. | Eastern | 360 | 08 |
| Lorne | East .. | Front. | Esplanade | 110 | 80 |
| Lobb | South .. | Crawford | Shaw | 69 | 33 |
| Lippincott | West .. | Ulster | Harbord | 9 | 40 |
| Markham | West .. | College | House No. 228 | 81 | 41 |
| Marshall | South .. | Brock Av | 135 ft. east. | 24 | 52 |
| Maitland | North .. | Church | Jarvis | 298 | 51 |
| Markham | East .. | Queen | Robinson | 150 | 10 |
| " | " | 316 ft. n. of Arthur | College | 432 | 89 |
| " | " | 100 ft. n. of London | 200 ft. north | 37 | 44 |
| Marion. | Both .. | Fuller | Sorauren | 301 | 36 |
| Maple Grove | South .. | Sherbourne. | Glen Rd | 7 | 24 |
| Mercer | " | John. | Peter. | 159 | 47 |

| Street. | Side. | From | To | |
|--------------------|----------|----------------------|----------------------|--------|
| | | | | \$ c. |
| Mill | North .. | Water | Beachall | 128 27 |
| " | " .. | Cherry | Water | 118 58 |
| Millstone La | " .. | York | East end | 75 12 |
| Muir | " .. | Brock | Sheridan | 89 69 |
| Morse | East .. | Queen | Eastern | 258 68 |
| McMillan | East .. | 75 ft. n. Maitland | House No. 5 | 44 40 |
| McDonnell Sq. | North .. | Bathurst | 426 ft. west | 77 25 |
| " | " .. | " | 233 ft. w. of Spence | 192 60 |
| Niagara | South .. | Tecumseth | Wellington | 126 85 |
| " | North .. | Portland | Bathurst | 34 36 |
| North | West .. | Czar | St. Mary | 62 77 |
| Northcote | East .. | Queen | Afton | 574 78 |
| " | West .. | Argyle | " | 166 19 |
| Noble | North .. | Brock | 300 ft. east | 79 39 |
| Ontario | West .. | Howard | Wellesley | 351 20 |
| Osler | East .. | Royce | North end | 175 04 |
| Ossington | West .. | Dewson | Bloor | 556 64 |
| Ontario | " .. | Carlton | 321 ft. north | 76 53 |
| " | " .. | Wilton | 324 ft. north | 69 42 |
| " | East .. | Winchester | Wellesley | 214 26 |
| Orde | North .. | Murray | The Avenue | 62 10 |
| Ontario | East .. | Wellesley | Howard | 390 04 |
| Pearl | South .. | Simcoe | 247 ft. east | 89 97 |
| Parliament | West .. | 40 ft. w. Prospect | Wellesley | 78 20 |
| " | East .. | 155 ft. n. St. David | 105 ft. north | 39 11 |
| Park Rd | " .. | Bismarck | Collier | 35 72 |
| " | West .. | Bloor | " | 147 33 |
| " | East .. | Collier | 360 ft. north | 101 39 |
| Parliament | " .. | Front | 87 " | 31 86 |
| Poulett | " .. | Sydenham | 240 " | 40 82 |
| Princess | West .. | Esplanade | Front | 107 02 |
| Price | North .. | Yonge | East end | 81 98 |
| Queen | South .. | Lewis | Broadview Av. | 77 52 |
| " | " .. | Caroline | 177 ft. e. of Knox.. | 785 86 |
| " | North .. | Sackville | 339 ft. west | 148 63 |
| " | South .. | Broadview | Smith's Block | 159 40 |
| " | North .. | Verrall | 151 ft. west | 79 64 |
| " | " .. | Curzon | Kingston Rd | 440 39 |
| " | South .. | Don bridge | Smith's Block | 80 52 |
| Reynolds | East .. | Collier | 160 ft. north | 27 07 |
| " | West .. | " | 127 " | 21 24 |
| Richmond | South .. | John | York | 393 68 |
| " | North .. | York | Simcoe | 156 79 |
| Russell | " .. | Simcoe | Robert | 63 22 |
| Ross | Both .. | College | Cecil | 367 07 |
| Roncesvalles | East .. | Dundas | Lucas | 416 87 |
| Robert | " .. | College | Willcock | 367 99 |

| Street. | Side. | From | To | \$ | c. |
|------------------------|-----------|-----------------------|--------------------------|-----|----|
| Roxborough | South . . | Yonge | Scarth Rd | 329 | 18 |
| Royce Av. | Both . . | Perth | West Terminus | 426 | 86 |
| Salisbury | South . . | Sackville | East end | 54 | 70 |
| Sackville | West . . | Oak | Gerrard | 11 | 90 |
| " | " . . | St. David | Wilton | 115 | 22 |
| Surrey Pl. | East . . | Grenville | Grosvenor | 129 | 14 |
| Sumach. | West . . | Queen | 91 ft. north | 62 | 20 |
| " | " . . | Wilton | 67 " | 27 | 08 |
| Sully | " . . | Arthur | Crawford | 524 | 60 |
| Sydenham | North . . | Parliament | Sumach | 362 | 73 |
| Shaw | East . . | Bellwoods Pl. | Queen | 475 | 54 |
| " | " . . | " | 182 ft. south | 42 | 65 |
| Sheridan | " . . | Dundas | Fisher | 46 | 03 |
| Shannon | South . . | Ossington | Dovercourt | 243 | 43 |
| Shaw. | West . . | Halton | Argyle | 131 | 69 |
| Stewart | South . . | Bathurst | Portland | 222 | 89 |
| Shuter | " . . | Yonge | 118 ft. east | 91 | 26 |
| Sheppard | Both . . | Richmond | Adelaide | 209 | 37 |
| Spruce | North . . | Gifford | 139 ft. east | 40 | 69 |
| Shirley | " . . | Brock | St. Clarens | 136 | 12 |
| St. Patrick | South . . | Esther | Denison | 103 | 71 |
| " | " . . | Denison | Bathurst | 160 | 20 |
| St. Nicholas | East . . | St. Mary | Czar | 38 | 69 |
| St. James Av | North . . | Ontario | Rose | 71 | 88 |
| St. Joseph | " . . | Chapel | The Park | 219 | 52 |
| St. Mary | " . . | Yonge | St. Nicholas | 50 | 11 |
| St. Joseph | South . . | " | " | 49 | 92 |
| St. Patrick Sq | East . . | Queen | Stephanie | 79 | 86 |
| St. Mary | North . . | North | West end | 197 | 22 |
| St. Patrick | " . . | Spadina | Denison | 286 | 33 |
| St. Helen's Av | West . . | Dundas | 116 ft. s. of Pierce . . | 306 | 11 |
| Saulter | East . . | Queen | G. T. Railway | 253 | 96 |
| Sackville | " . . | St. David | 62 ft. south | 21 | 24 |
| " | " . . | Winchester | Carlton | 125 | 36 |
| Sarah | " . . | Belmont | 101 ft. south | 16 | 21 |
| Sackville | West . . | Wellesley | Amelia | 80 | 68 |
| Salisbury | North . . | Sackville | East end | 137 | 53 |
| Sackville | East . . | Winchester | Salisbury | 69 | 26 |
| " | West . . | Oak | Gerrard | 215 | 47 |
| South Drive | N.&W . . | E. limit of No. 34 | W. limit of No. 52 . . | 59 | 48 |
| Taylor | South . . | Sumach | 105 ft. south | 19 | 56 |
| Tate | North . . | Water | Beachall | 90 | 93 |
| Teraulay | East . . | Albert | Agnes | 209 | 09 |
| Tecumseth | " . . | Niagara | Wellington | 65 | 05 |
| Turner | North . . | Tecumseth | Westend | 76 | 96 |
| Trafalgar | Both . . | Gladstone | Dufferin | 262 | 34 |
| Van Horne | South . . | Dufferin | Westmoreland | 215 | 65 |
| Vine | North . . | Eastern | 306 ft. south | 54 | 32 |
| Wellington Av. | North . . | Strachan Av. | Stanley Park | 146 | 39 |

| Street. | Side. | From | To | |
|-------------------|----------|-------------------|----------------------|-----------|
| | | | | \$ c. |
| Wellesley | South .. | Sherbourne | Bleecker | 54 91 |
| " | " .. | Parliament | Sumach | 513 19 |
| West Lodge. | West .. | North Terminus .. | 253 ft. south..... | 171 18 |
| Wellesley | North .. | Parliament | Sumach | 488 88 |
| Wellington Av.... | " .. | Niagara | 235 ft. e. Strafford | 220 86 |
| William. | East .. | Queen | Anderson | 328 32 |
| Wilton | North .. | Church | Mutual | 76 39 |
| William. | East .. | Caer Howell ... | Anderson. | 147 00 |
| Widmer | West .. | Adelaide | King. | 115 33 |
| Wilton | North .. | Sherbourne..... | Seaton..... | 97 31 |
| Winchester | South .. | Sackville | Sumach | 226 39 |
| Wyndham. | " .. | Brock | St. Clarens..... | 97 61 |
| Wyatt Av. | Both .. | Sumach | River | 226 66 |
| Wright | South .. | Sorauren..... | 633 ft. west..... | 180 98 |
| Yonge | East .. | Severn | Rosedale Rd..... | 310 10 |
| " | " .. | Cottingham..... | City Limits..... | 305 66 |
| " | " .. | Front | Esplanade. | 130 47 |
| " | " .. | Roxboro'. | McPherson..... | 78 85 |
| | | | | 46,353 66 |

APPENDIX "B."

WATER WORKS DEPARTMENT.

| For Abstract of Charges see page. | ACCOUNTS. | \$ c. | | \$ c. | | \$ c. | |
|---|--------------------------------------|--------|----|---------|----|---------|----|
| | | | | | | | |
| | MAINTENANCE. | | | | | | |
| 135 | Maintenance of distribution | 25,210 | 57 | | | | |
| 136 | Main Pumping Station | 71,279 | 65 | | | | |
| 137 | Meter and Machine Shop | 9,146 | 12 | | | | |
| 138 | Press and Store House. \$2,539 47 | | | | | | |
| | “ “ | | | | | | |
| 138 | Hydrants and valves. 4,812 00 | | | | | | |
| | | 7,351 | 47 | | | | |
| 139 | High Level Station. : | 8,279 | 39 | | | | |
| 139 | Reservoir | 10,023 | 83 | | | | |
| 140 | Cartage | 3,385 | 03 | | | | |
| 140 | Miscellaneous | 881 | 12 | | | | |
| 140 | Island Water Works (maintenance) | 1,981 | 53 | | | | |
| | | | | 137,538 | 71 | | |
| | CONSTRUCTION. | | | | | | |
| 141 | House services..... | 10,005 | 90 | | | | |
| 142 | Short lengths and extra fire hy- | | | | | | |
| | drants..... | 92 | 06 | | | | |
| 142 | Dead ends | 4 | 00 | | | | |
| 143 | Revenue Mains | 3,199 | 09 | | | | |
| 145 | 6-ft. steel conduit | 760 | 19 | | | | |
| | | | | 14,061 | 24 | | |
| | RENEWALS. | | | | | | |
| 146 | House services..... | | | 5,650 | 85 | | |
| | SPECIAL SERVICES. | | | | | | |
| 146 | Additional mains for fire protection | 101 | 02 | | | | |
| 146 | Bathurst St. main to Bertram's yard | 76 | 69 | | | | |
| 146 | Colborne St. main, Yonge to Church | 240 | 34 | | | | |
| 146 | Don River main, on west side..... | 60 | 49 | | | | |
| 146 | Filling in old filtering basin | 617 | 69 | | | | |
| 146 | Improved water services..... | 39 | 94 | | | | |
| 146 | Improved fire protection | 171 | 21 | | | | |
| 146 | King St. main, Simcoe to Spadina. | 4,838 | 08 | | | | |
| 147 | Lane in rear of Horticultural G'd'ns | 266 | 60 | | | | |
| 147 | O'Hara Av. main, Marion to 650 ft. | | | | | | |
| | north | 42 | 72 | | | | |
| 147 | Parkdale water supply | 240 | 60 | | | | |
| | Queen St. main, Yonge to Simcoe.. | 207 | 44 | | | | |
| | “ Simcoe to Soho.... | 177 | 82 | | | | |
| 147 | “ Soho to Spadina ... | 91 | 49 | | | | |
| | “ Spadina to Bathurst | 150 | 00 | | | | |
| | “ Bathurst to Niagara | 118 | 42 | | | | |
| 148 | Repairs to Water Works dock | 792 | 19 | | | | |
| | | | | 8,232 | 74 | | |
| | | | | | | 165,483 | 54 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|----|----|----|----|
| MAINTENANCE. | | | | | | |
| MAINTENANCE OF DISTRIBUTION. | | | | | | |
| 18 ft. 6-in. pipe, \$47.95; 22 6-in. sleeves, \$30.73..... | 78 | 68 | | | | |
| 140 double iron boxes, \$151.28; 202 single iron boxes, \$154.71..... | 305 | 99 | | | | |
| 197 stop cock rods, \$43.04; 1,373 lbs. scrap lead, \$43.92..... | 86 | 96 | | | | |
| 30 long valve chamber tops and centres, \$174.92; 173 round valve chamber tops and centres, \$1,340.90..... | 1,515 | 82 | | | | |
| 1-in. single cocks, \$28.80; $\frac{1}{2}$ -in. single cocks, \$116.68; $\frac{3}{4}$ -in. single cocks, \$163.50. | 309 | 08 | | | | |
| $\frac{3}{8}$ -in. single cocks, \$37.90; $\frac{5}{8}$ -in. single cocks, \$74.75..... | 112 | 65 | | | | |
| 1,737 lbs. lead pipe, \$79.81; 8 4-in. iron boxes, \$16.30..... | 96 | 11 | | | | |
| 8 hydrants & jackets, \$283; 186 $\frac{1}{2}$ gals. coal oil, \$26.75..... | 309 | 75 | | | | |
| 27 monkey wrenches, \$33.05; 60 lbs. copper wire, \$14.19..... | 47 | 24 | | | | |
| Phone service, \$115; 9 pairs boots, \$36.11 | 151 | 11 | | | | |
| Sheet lead, \$12; 2 ratchets, \$9.60; stones, \$37..... | 58 | 60 | | | | |
| 12 switch locks, \$15; wood, \$7.63..... | 22 | 63 | | | | |
| 217 bbls. cement, \$550.47; 27 tons coal, \$76.08..... | 626 | 55 | | | | |
| Fittings, tools and sundry material..... | 61 | 66 | | | | |
| Patterns, \$478.86; 7,195 ft. lumber, \$97.75..... | 576 | 61 | | | | |
| 2 sets harness, \$99.10; 2,347 lbs. nails, \$47.40..... | 146 | 50 | | | | |
| Sidewalk charges, \$9.40; repairs, \$67.65. | 76 | 45 | | | | |
| 142,000 bricks, \$1,025; 502 cement plates, \$72.44..... | 1,097 | 44 | | | | |
| 163 round service plates, \$8.72; horse-shoeing, \$28..... | 36 | 72 | | | | |
| 210 driving nipples, \$55.40; 210 brass-screwed nipples, \$76.82..... | 132 | 22 | | | | |
| 362 brass couplings, \$143.36; 12-in. pipe, \$14.62..... | 157 | 98 | | | | |
| Rent of yard, \$300; horse feed, \$163.44.. | 463 | 44 | | | | |
| Bushings, valves, bends, elbows, etc.... | 36 | 80 | | | | |
| 5-in. pipe, \$9.96; 6,517 ft. 2-in. pipe, \$222.04..... | 232 | 00 | | | | |
| 10 lengths 6-in. pipe, \$48; 60 ft. 2-in. pipe, \$6..... | 54 | 00 | | | | |
| 919 lbs. iron, \$24.52; ferry fares, \$23.50.. | 48 | 02 | | | | |
| 132 4-in. files, \$19.80; 2 ladders, \$20; sash bar, \$8.50..... | 48 | 30 | | | | |
| 35 lengths 4-in. pipe, \$113.75; 24 $\frac{1}{2}$ gals. paint, \$24..... | 137 | 75 | | | | |
| Carried forward..... | 7,027 | 06 | | | | |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|--------|----|--------|-----------|
| <i>Brought forward</i> | 7,027 | 06 | | | | |
| 128 yds. sand, \$105.92 ; 322 ft. 1-in. pipe, \$14.47..... | 120 | 39 | | | | |
| 8 8-in. sleeves, \$10.31 ; 5 12-in. sleeves, \$16.10..... | 26 | 41 | | | | |
| 739 $\frac{3}{4}$ lbs rope, \$68.65 ; 5 gals. shellac, \$8.75..... | 77 | 40 | | | | |
| Lamp-wick, globes, etc..... | 58 | 92 | | | | |
| Flanges, bends, and sundry fittings..... | 78 | 27 | | | | |
| 84 double cocks, \$113.40 ; sundry hard- ware, \$28.67..... | 142 | 07 | | | | |
| Lifting track, \$4.65 ; filling old filtering basin, \$50..... | 54 | 65 | | | | |
| Sundry material..... | 28 | 86 | | | | |
| Labor..... | 17,596 | 54 | | | | |
| | | | 25,210 | 57 | | |
| MAIN PUMPING STATION. | | | | | | 25,210 57 |
| 10,534 $\frac{1}{2}$ lbs. phosphor bronze castings, \$128.90 ; 40 lbs. packing, \$52.45.... | 181 | 35 | | | | |
| Carting coal, \$1,468.63 ; phone service, \$120..... | 1,588 | 63 | | | | |
| 8 pairs boots, \$34.24 ; 2,200 bricks, \$19.. 1,857 gals. engine oil, \$579.12 ; 1,066 gals. cylinder oil, \$479.12..... | 53 | 24 | | | | |
| 13,264 lbs. boiler compound, \$663.24 ; re- pairs, \$290.09..... | 1,058 | 24 | | | | |
| 10 wrenches, \$14.75 ; 24 globes, \$24 ; sec- tional rings, \$69.35..... | 953 | 33 | | | | |
| 821 bush. fire clay, \$34.89 ; 4,982 lbs waste, \$273.17..... | 108 | 10 | | | | |
| Wrought iron pipe, \$31.67 ; valves, \$26.28 | 313 | 06 | | | | |
| Fittings and sundry material..... | 57 | 95 | | | | |
| Polish, grease and bluestone..... | 359 | 18 | | | | |
| 2,860 fire bricks, \$92.70 ; coal oil, wick, \$49.13..... | 59 | 68 | | | | |
| 13,876 $\frac{525}{2000}$ tons soft coal, \$33,177.91 ; 2,133 $\frac{915}{2000}$ tons anthracite, \$8,684.66 | 141 | 83 | | | | |
| 191 $\frac{680}{2000}$ coal screenings, \$53.18 ; 3,212 car- bons, \$169.36..... | 41,862 | 57 | | | | |
| Hire of scale, \$8 ; 33 cord slabs, \$86.40 | 222 | 54 | | | | |
| 449 lbs. iron \$13.23 ; 536 lbs. gaskets, \$258.45..... | 94 | 40 | | | | |
| 135 sheets cor. iron, \$18 ; lamps, \$14.40.. | 271 | 68 | | | | |
| Soap, \$45.01 ; 112 lbs. wire, \$26.18 ; nails, \$12.60..... | 32 | 40 | | | | |
| 24 doz. gauge glasses, \$38.28 ; rentals, \$1,540..... | 83 | 78 | | | | |
| 18,828 ft. lumber, \$164.04 ; 34 sheets gal- vanized iron, \$20.40..... | 1,578 | 28 | | | | |
| Washers, brooms, torches, etc..... | 184 | 44 | | | | |
| 118 lights glass, \$42.22 ; lye, \$13.90 ; candles, \$7.92..... | 36 | 72 | | | | |
| | 64 | 04 | | | | |
| <i>Carried forward</i> | 49,305 | 44 | | | 25,210 | 57 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|--------|----|--------|----|
| <i>Brought forward</i> | 49,305 | 44 | ..... |  | 25,210 | 57 |
| Sundry hardware..... | 92 | 25 | | | | |
| 350 lbs. oat meal, \$10.50; files, \$13.76; plumbago, \$10.20..... | 34 | 46 | | | | |
| Inspecting scales, \$14.80; analysis of oils, \$60..... | 74 | 80 | | | | |
| Paint, turps, sand paper, etc..... | 35 | 32 | | | | |
| Spindles, \$27.35; 3½ loads mortar, \$21.. | 48 | 35 | | | | |
| Rivets, screws, and sundry material..... | 34 | 15 | | | | |
| Customs entry, \$13.60; brushes, \$15.12; slate, \$5.00..... | 33 | 72 | | | | |
| Japan, white lead, etc..... | 39 | 15 | | | | |
| Labor..... | 24,770 | 54 | | | | |
| | 74,468 | 18 | | | | |
| <i>Less amount paid Treasurer for coal</i> | 3,188 | 53 | | | | |
| | | | 71,279 | 65 | | |
| | | | | | 71,279 | 65 |
| METER AND MACHINE SHOP. | | | | | | |
| 108 meter boxes, \$287.56; 43 meter tops, \$27.55..... | 315 | 11 | | | | |
| Meter parts, \$124.40; 3,797 lbs. castings, \$225.01..... | 349 | 41 | | | | |
| 41 lbs. solder, \$8.81; files, \$11.87; oils, \$34.64..... | 55 | 32 | | | | |
| Refund on meter, \$110; 63½ tons coal, \$202.80..... | 312 | 80 | | | | |
| Wrought iron pipe, \$26.60; 8 meter screens, \$84.12..... | 110 | 72 | | | | |
| 2,363 ft. lumber, \$27.89; 11,101 lbs. iron. \$283.30..... | 311 | 19 | | | | |
| 308½ lbs. steel, \$25.89; 215 lbs. waste, \$8.65..... | 34 | 54 | | | | |
| Fittings and sundry material..... | 102 | 63 | | | | |
| Sundry hardware..... | 45 | 37 | | | | |
| 15 cord wood, \$41.77; nails, \$10.22; paint, \$13.95..... | 65 | 94 | | | | |
| Rubber rings, H. S. blades, etc..... | 42 | 08 | | | | |
| Inter gear, \$49.50; belt dressing, \$10; custom's duty, \$75.11..... | 134 | 61 | | | | |
| 2 hot water meters, \$278.50; 274 brass screwed nipples, \$45.14..... | 323 | 64 | | | | |
| Fittings and sundry materials..... | 70 | 72 | | | | |
| Tools and sundry materials..... | 36 | 15 | | | | |
| Putty, japan, screws, packing, turps.... | 33 | 63 | | | | |
| Coal oil, \$5.35; 1,380 lbs. lead pipe, \$60.69; brushes, \$4.93..... | 70 | 97 | | | | |
| Ratchet, stocks and dies, \$26.50; giant check valves, etc., \$34.91..... | 61 | 41 | | | | |
| Lead, sand paper, plumbago, etc..... | 39 | 34 | | | | |
| 1 piston roller, \$3.50; copper, \$5.60; P. valves, \$6.80..... | 15 | 90 | | | | |
| <i>Carried forward</i> | 2,531 | 48 | ..... |  | 96,490 | 22 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|-------|-------|---------|----|
| <i>Brought forward</i> | 2,531 | 48 | ..... | ..... | 96,490 | 22 |
| Candles, \$3.48; sawdust, \$4.70; valves and rings, \$13.05 | 21 | 23 | | | | |
| Car tickets, \$5; single cocks, \$6.59; sundries, \$1.84 | 13 | 43 | | | | |
| Nuts, cement, rivets and bolts | 54 | 81 | | | | |
| Labor | 8,289 | 99 | | | | |
| | 10,910 | 94 | | | | |
| Amount paid Treasurer— | | | | | | |
| Scrap | \$ 108 | 00 | | | | |
| Loan of meter | 161 | 70 | | | | |
| Moving meters | 14 | 00 | | | | |
| Testing meters | 5 | 00 | | | | |
| Smith's time and material. | 1,229 | 57 | | | | |
| Iron, 12,929½ lbs. | 198 | 55 | | | | |
| Steel, 480 lbs. | 48 | 00 | | | | |
| | 1,764 | 82 | | | | |
| | | | 9,146 | 12 | | |
| | | | | | 9,146 | 12 |
| PRESS AND STORE HOUSE. | | | | | | |
| 100 ft. rope, \$8; 1½ cord wood, \$7.50 | 15 | 50 | | | | |
| 63½ lbs. castings, \$10.80; repairs, \$8 | 18 | 80 | | | | |
| 9 tons coal, \$31.85; lumber, \$2.91 | 34 | 76 | | | | |
| 'Phone service, \$45; Treasurer refund, \$12.67 | 57 | 67 | | | | |
| 181 lbs. nails, \$3.72; sundry hardware, \$4.15 | 7 | 87 | | | | |
| Bolts, hasps, brooms, etc. | 3 | 03 | | | | |
| Inspecting scales | 4 | 25 | | | | |
| Labor | 3,027 | 43 | | | | |
| | 3,169 | 31 | | | | |
| Less amount paid Treasurer for scrap ... | 629 | 84 | | | | |
| | | | 2,539 | 47 | | |
| PRESS AND STORE HOUSE, HYDRANTS AND VALVES. | | | | | | |
| 69¼ lbs. phosphor bronze castings, \$10.48; 1,029 lbs. castings, \$15.24 | 25 | 72 | | | | |
| 2 cast steel dies, \$5.60; engine oil, \$13.72 | 19 | 32 | | | | |
| 2 cast iron dies, \$5.60; 208 check nuts, \$20.80 | 26 | 40 | | | | |
| Car tickets, \$10; repairs, \$27.90; 2 hydrants, \$39 | 76 | 90 | | | | |
| 9 tons coal, \$39.95; 39 gals. paint, \$42.20 | 82 | 15 | | | | |
| 376 ft. lumber, \$11.02; sheeting, \$12.16. | 23 | 18 | | | | |
| 100 ft. 4-in. pipe, \$16.50; 13 gals. japan, \$12.20 | 28 | 70 | | | | |
| 10 brushes, \$6.50; 287 lbs. sole leather, \$71.75 | 78 | 25 | | | | |
| <i>Carried forward</i> | 360 | 62 | 2,539 | 47 | 105,636 | 34 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|-------|----|-------|----|---------|----|
| <i>Brought forward</i> | 360 | 62 | 2,539 | 47 | 105,636 | 34 |
| 11 gals. turps, \$7.55; 16 $\frac{3}{4}$ lbs. shaved leather, \$7.54 | 15 | 09 | | | | |
| 54 $\frac{3}{4}$ -in. brass plugs, \$6.39; sundry hardware, \$4.40 | 10 | 79 | | | | |
| Tees, couplings, elbows and sundry material | 31 | 79 | | | | |
| Labor | 4,443 | 71 | | | | |
| | 4,862 | 00 | | | | |
| Less amount paid Treasurer moving hydrant | 50 | 00 | | | | |
| | | | 4,812 | 00 | | |
| | | | | | 7,351 | 47 |
| HIGH LEVEL STATION. | | | | | | |
| 1,002 lbs. boiler compound, \$40.08; 145 gals. coal oil, \$99.62 | 139 | 70 | | | | |
| Carting coal, \$310.33; valves, \$26.18; rose trees, \$15 | 351 | 51 | | | | |
| 57 lbs. packing, \$26.40; 9 J. valves, \$38.35 | 64 | 75 | | | | |
| 932 $\frac{1939}{2000}$ tons coal, \$2,406.39; 19 lbs. spiral packing, \$10.45 | 2,416 | 84 | | | | |
| 'Phone service, \$67; reporting <i>re</i> Heal, \$287 | 354 | 00 | | | | |
| 866 lbs. soap, \$10.34; automatic lubricator, \$9 | 19 | 34 | | | | |
| 49 gals. engine oil, \$13.32; 96 gals. coal oil, \$18.17 | 31 | 49 | | | | |
| 1,168 lbs. waste, \$75.73; 8 gals. paint, \$8.15 | 83 | 86 | | | | |
| Sundry fittings | 30 | 96 | | | | |
| 1 Heintz S. trap, \$13.88; 600 ft. oak, \$9. | 22 | 88 | | | | |
| Medical attendance, \$12; rentals, \$12.09. | 24 | 09 | | | | |
| Valves, cocks, unions, elbows, etc. | 33 | 64 | | | | |
| Sundry hardware, \$24.86; car tickets, \$5. | 29 | 86 | | | | |
| Wick, lamps, globes, etc. | 40 | 03 | | | | |
| Labor | 4,636 | 44 | | | | |
| | | | | | 8,279 | 39 |
| RESERVOIR. | | | | | | |
| Flowers and seed, \$274.20; 37 $\frac{1}{2}$ cord wood, \$197 | 471 | 20 | | | | |
| 200 ft. hose, \$26; 21 lights glass, \$6.68; horse feed, \$119.64 | 152 | 32 | | | | |
| Electric light, \$455.23; 'phone service, \$60 | 515 | 23 | | | | |
| Flower pots, \$214.80; 1,200 lbs. fertilizer, \$19.75 | 234 | 55 | | | | |
| 81 $\frac{115}{2000}$ tons coal, \$369.73; 1,513 ft. lumber, \$28.64 | 398 | 37 | | | | |
| 325 lbs. nails, \$7.25; rakes, shovels, saws, etc., \$26.19 | 33 | 44 | | | | |
| Seats, \$60; paint and white lead, \$21. | 81 | 00 | | | | |
| Sundry hardware | 20 | 48 | | | | |
| <i>Carried forward</i> | 1,906 | 59 | | | 121,267 | 20 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|--------|----|----|----|---------|----|
| <i>Brought forward</i> | 1,906 | 59 | | | 121,267 | 20 |
| Coal oil, globes, wicks, etc | 37 | 16 | | | | |
| 14,748 ft. lumber, \$243.15; tobacco stems, \$7.50 | 250 | 65 | | | | |
| Labor, maintenance..... | 6,122 | 20 | | | | |
| " repairing banks and cleaning..... | 2,076 | 73 | | | | |
| | 10,393 | 33 | | | | |
| Less amount paid Treasurer for scrap | 369 | 50 | | | 10,023 | 83 |
| MISCELLANEOUS. | | | | | | |
| Repairs to City buoys | 66 | 66 | | | | |
| Ferry tickets, \$7; car tickets, \$10 | 17 | 00 | | | | |
| 5 lbs. solder, \$1; bottles and corks, \$3.26; Hire of scales, \$1 | 5 | 26 | | | | |
| Thermometers, \$12; cans and sponges, \$1.90..... | 13 | 90 | | | | |
| Labor | 778 | 30 | | | 881 | 12 |
| CARTAGE. | | | | | | |
| Horseshoeing, \$97.95; horse feed, \$626.58 | 724 | 53 | | | | |
| Repairs, \$90.95; 3 sets harness, \$77.70... | 168 | 65 | | | | |
| 50 ft. hose, \$10.50; 23 brushes, \$6.16 | 16 | 66 | | | | |
| Veterinary services, \$8; 1 cord wood, \$5.12 | 13 | 12 | | | | |
| Sundry hardware | 11 | 57 | | | | |
| Sawdust, glue, tallow and sundry material | 17 | 28 | | | | |
| Labor | 2,433 | 22 | | | 3,385 | 03 |
| ISLAND WATER WORKS. | | | | | | |
| Rentals, \$237.50; carting coal, \$8.54 | 246 | 04 | | | | |
| Phone service, \$45; ferry tickets, \$79.40. | 124 | 40 | | | | |
| Sundry hardware | 26 | 66 | | | | |
| 136 gals. coal oil, \$30.86; 2 pairs divers' mitts, \$12 | 42 | 86 | | | | |
| 80 ft. hose, \$8.75; 2 lubricators, \$41 | 49 | 75 | | | | |
| 6 globe valves, \$8.25; 164 lbs. lead pipe, \$7.21 | 15 | 46 | | | | |
| Couplings, reducers and sundry fittings... | 18 | 11 | | | | |
| Oils, \$3.86; 48 $\frac{1}{2}$ $\frac{3}{4}$ tons coal, \$188.42.... | 192 | 28 | | | | |
| Packing, \$8.89; asbestos cock, \$7.75 | 16 | 64 | | | | |
| 109 lbs. waste, \$7.63; soap, \$5.85 | 13 | 48 | | | | |
| 1 bbl. coal oil | 11 | 40 | | | | |
| Globe, wick, lamps, etc..... | 42 | 92 | | | | |
| Labor | 1,181 | 53 | | | 1,981 | 53 |
| <i>Carried forward</i> | | | | | 137,538 | 71 |

| | \$ | c. | \$ | c. | \$ | c. |
|--|--------|----|--------|----|---------|----|
| <i>Brought forward</i> | | | | | 137,538 | 71 |
| CONSTRUCTION. | | | | | | |
| <i>House Services.</i> | | | | | | |
| 86,926 lbs lead pipe, \$3,773.59 ; 2,385 lbs. scrap lead, \$72.69..... | 3,846 | 28 | | | | |
| 7, 6 x 6 single branch, \$16.95 ; 15 6 x 12 single branch, \$74.45..... | 91 | 40 | | | | |
| 171 $\frac{5}{8}$ -in. driving nipples, \$44.39 ; 53 $\frac{3}{4}$ -in. driving nipples, \$18.49..... | 62 | 88 | | | | |
| 447 single iron boxes, \$331.19 ; 27 peet valves, \$61..... | 392 | 19 | | | | |
| 754 $\frac{1}{2}$ -in. single cocks, \$506.75 ; 66 $\frac{3}{4}$ -in. single cocks, \$62.01..... | 568 | 76 | | | | |
| 21 1-in single cocks, \$30.25 ; 27 $\frac{1}{2}$ x $\frac{5}{8}$ -in. double cock, \$35.75..... | 66 | 00 | | | | |
| 1,362 stop cock rods, \$332.12 ; 19 valve boxes, \$28.30..... | 360 | 42 | | | | |
| 15 12-in. sleeves, \$48.26 ; 15 4-in. valves, \$136.50..... | 184 | 76 | | | | |
| 5 long valve chamber tops, \$24.76 ; brass couplings, \$349.87..... | 374 | 63 | | | | |
| 124 brass screwed nipples, \$35.32 ; 5 6-in. elbows, \$7.90..... | 43 | 22 | | | | |
| Wrought iron pipe, \$141.57 ; 181 $\frac{3}{8}$ -in. single cocks, \$81.45 ; 105 $\frac{5}{8}$ -in. single cocks, \$79.40..... | 302 | 42 | | | | |
| 21 6-in S. pipe, \$41.60 ; 9 6-in. valves, \$118.80..... | 160 | 40 | | | | |
| 116 brass screwed nipples..... | 32 | 58 | | | | |
| 243 $\frac{1}{2}$ -in. driving nipples, \$54.20 ; 26 6-in. sleeves, \$66.19..... | 120 | 39 | | | | |
| 79 double cocks, \$106.70 ; 352 brass couplings, \$76.13..... | 182 | 83 | | | | |
| Plugs, bushings, and sundry fittings..... | 29 | 83 | | | | |
| 760 lbs. pig lead, \$27.36 ; 71 $\frac{3}{4}$ x $\frac{5}{8}$ -in. double cocks, \$100.65..... | 128 | 01 | | | | |
| Valve boxes, \$36.40 ; round valve chamber tops and centres, \$22.86..... | 59 | 26 | | | | |
| 1 hydrant, \$29 ; 325 double iron boxes, \$389..... | 418 | 00 | | | | |
| 99 4-in. sleeves, \$27.16 ; 75 lbs. jute, \$5.55..... | 32 | 71 | | | | |
| Elbows, tees, valves, etc..... | 15 | 70 | | | | |
| Treasurer's refund..... | 227 | 50 | | | | |
| Labor..... | 7,530 | 31 | | | | |
| | 15,130 | 78 | | | | |
| Less amount paid Treasurer for services and moving services..... | 5,124 | 88 | | | | |
| | | | 10,005 | 90 | | |
| <i>Carried forward</i> | | | 10,005 | 90 | 137,538 | 71 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-----|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 10,005 | 90 | 137,538 | 71 |
| SHORT LENGTHS AND EXTRA FIRE HYDRANTS. | | | | | | |
| 6 6 x 6 single branch, \$12.78; 12-in. sleeves, \$6.40..... | 19 | 18 | | | | |
| 5 6-in. sleeves, \$6.78; 2 lengths 6-in. pipe, \$5.20..... | 11 | 98 | | | | |
| 9 hydrants, \$250.50; sleeves and elbows, \$5.33..... | 255 | 83 | | | | |
| 3 10 x 6 single branch, \$13.06; packing, 80c | 13 | 86 | | | | |
| 625 lbs. scrap lead..... | 21 | 60 | | | | |
| Contract..... | 33 | 83 | | | | |
| Labor..... | 239 | 98 | | | | |
| | 596 | 26 | | | | |
| <i>Less amount paid Treasurer for scrap</i> | 504 | 20 | | | | |
| | | | 92 | 06 | | |
| <i>Dead Ends.</i> | | | | | | |
| Labor..... | | | 4 | 00 | | |
| REVENUE MAINS. | | | | | | |
| <i>Atlantic Avenue.</i> | | | | | | |
| 2 hydrants, \$55; 470 lbs. pig lead, \$20.52 | 75 | 52 | | | | |
| 1 6-in. valve, \$13.45; 2 6 x 6 single branch, \$4.26..... | 17 | 71 | | | | |
| 1 long valve chamber top, \$5.02; 350 ft. 6-in. pipe, \$140..... | 145 | 02 | | | | |
| 10 lbs. jute, 80c.; 1 6-in. cap, 62c..... | 1 | 42 | | | | |
| Labor..... | 156 | 61 | | | | |
| | | | 396 | 28 | | |
| <i>Delaware Avenue.</i> | | | | | | |
| Contract..... | | | 31 | 67 | | |
| <i>Frazer Avenue.</i> | | | | | | |
| Contract..... | | | 27 | 00 | | |
| <i>Parkman Avenue.</i> | | | | | | |
| Contract..... | | | 29 | 35 | | |
| <i>Shaw Street.</i> | | | | | | |
| Contract..... | | | 9 | 15 | | |
| <i>Hunter Street.</i> | | | | | | |
| Contract..... | | | 38 | 99 | | |
| <i>Carried forward</i> | | | 10,634 | 40 | 137,538 | 71 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-----|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 10,634 | 40 | 137,538 | 71 |
| <i>Howland Road.</i> | | | | | | |
| Contract..... | | | 18 | 80 | | |
| <i>Simpson Avenue.</i> | | | | | | |
| 22 ft. 6-in. pipe, \$101.86; 1 6-in. valve, \$13 | 114 | 86 | | | | |
| 1 bend sleeve, \$4.54; round valve chamber top, \$7.50 | 12 | 04 | | | | |
| Supdry fittings | 4 | 25 | | | | |
| Labor | 7 | 50 | | | | |
| Contract | 75 | 24 | | | | |
| <i>Galley Avenue.</i> | | | 213 | 89 | | |
| 15 6-in. pipes..... | 69 | 45 | | | | |
| Contract | 101 | 56 | | | | |
| <i>Strachan Avenue.</i> | | | 171 | 01 | | |
| Contract..... | | | 69 | 32 | | |
| <i>McLean's Lane (Island.)</i> | | | | | | |
| Labor | | | 57 | 50 | | |
| <i>Gladstone Avenue.</i> | | | | | | |
| 33 6-in. valves, \$158.40; 13 6-in. pipes, \$62.40 | 220 | 80 | | | | |
| 2 6 x 6 single branches, \$4.26; hydrant, \$27 | 31 | 26 | | | | |
| Contract | 35 | 37 | | | | |
| <i>O'Hara Avenue.</i> | | | 287 | 43 | | |
| Contract..... | | | 20 | 31 | | |
| <i>Woolfrey Avenue.</i> | | | | | | |
| Ties and plugs | | | 32 | | | |
| <i>Hogarth Avenue.</i> | | | | | | |
| 1 hydrant, \$29; branches and sleeves, \$2.58 | 31 | 58 | | | | |
| Labor | 13 | 50 | | | | |
| <i>Danforth Road.</i> | | | 45 | 08 | | |
| 1 4-in. valve, \$10; 1 long valve chamber top, \$5 | 15 | 00 | | | | |
| 2 2-in. valves, \$4.40; 2 valve boxes, \$3.10 | 7 | 50 | | | | |
| <i>Carried forward</i> | 22 | 50 | 11,518 | 06 | 137,538 | 71 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-----|----|--------|----|---------|----|
| <i>Brought forward</i> | 22 | 50 | 11,518 | 06 | 137,538 | 71 |
| Plugs, bushings, ties, etc..... | 7 | 47 | | | | |
| Labor | 34 | 50 | | | | |
| <i>Chatham Street.</i> | | | 64 | 47 | | |
| Plugs | 36 | | | | | |
| Labor | 32 | 00 | | | | |
| <i>Bruce Street.</i> | | | 32 | 36 | | |
| 1 valve box, \$10; 1 single branch, \$2.70.. | 12 | 70 | | | | |
| Sleeves, valves and 4-in. cap | 3 | 17 | | | | |
| Labor | 10 | 00 | | | | |
| <i>Wright Avenue.</i> | | | 25 | 87 | | |
| 1 6-in. valve, \$13; 2 single branches, \$4.26 | 17 | 26 | | | | |
| 1 valve box, \$1.55; 2 sleeves, \$2.76; 1 6-in. cap, 62c..... | 4 | 93 | | | | |
| Labor | 14 | 00 | | | | |
| <i>Hickory Street.</i> | | | 36 | 19 | | |
| 1 4-in. valve, \$10; 1 3-in. valve, \$7.50; | | | | | | |
| 2 round valve chamber tops, \$15 | 32 | 50 | | | | |
| Sleeves and elbows | 4 | 30 | | | | |
| <i>Cherokee Avenue (Island.)</i> | | | 36 | 80 | | |
| 135 ft. 3 in. of 2-in. wrought iron pipe, \$13.53; 3 2-in. P. valves, \$7.20.... | 20 | 73 | | | | |
| 6 couplings, \$1.20; 10 tees, \$2 | 3 | 20 | | | | |
| Elbows and nipples | 44 | | | | | |
| <i>Cumming Street.</i> | | | 24 | 37 | | |
| 370 ft. 6-in pipes, \$170.60; 1 6-in. valve, \$13 | 183 | 60 | | | | |
| 1 round valve chamber top, \$7.62; sleeves, reducers, etc., \$5.43..... | 13 | 05 | | | | |
| Contract | 94 | 57 | | | | |
| Labor | 10 | 00 | | | | |
| <i>Havlock Street.</i> | | | 301 | 22 | | |
| 35 ft. 6-in. pipe, \$168; 1 6-in. valve, \$13. | 181 | 00 | | | | |
| 1 round chamber top and centre | 7 | 62 | | | | |
| Contract | 87 | 32 | | | | |
| Labor | 12 | 00 | | | | |
| <i>Carried forward</i> | | | 287 | 94 | | |
| | | | 12,327 | 38 | 137,538 | 71 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-----|----|--------|----|---------|----|
| <i>Brought forward</i> | | | 12,327 | 38 | 137,538 | 71 |
| <i>St. George Street.</i> | | | | | | |
| 31 ft. 6-in pipe, \$230.40 ; 1 hydrant, \$29. | 259 | 40 | | | | |
| 1 6-in valve, \$13 ; 1 long valve chamber top, \$4.88 | 17 | 88 | | | | |
| Sundry fittings | 5 | 28 | | | | |
| Contract | 101 | 82 | | | | |
| Labor | 8 | 00 | | | | |
| | | | 392 | 38 | | |
| <i>Crescent Road.</i> | | | | | | |
| 42 ft. 6-in. pipe, \$201.60 ; 1 6-in. valve, \$13 | 214 | 60 | | | | |
| 2 single branches, \$6.50 ; 1 hydrant, \$27.. | 33 | 50 | | | | |
| 1 round valve chamber top and centre, \$7.62 ; bends and sleeves, \$8.43 | 16 | 05 | | | | |
| Contract | 155 | 55 | | | | |
| Labor | 14 | 00 | | | | |
| | | | 433 | 70 | | |
| <i>Scurth Road.</i> | | | | | | |
| 1 6-in. pipe, \$2.60 ; 1 6 x 6 single branch, \$2.13 | 4 | 73 | | | | |
| Contract | 72 | 29 | | | | |
| Labor | 6 | 00 | | | | |
| | | | 83 | 02 | | |
| <i>Tyndall Avenue.</i> | | | | | | |
| Contract | | | 5 | 89 | | |
| <i>Maple Avenue.</i> | | | | | | |
| Contract | | | 7 | 35 | | |
| <i>Ulster Street.</i> | | | | | | |
| 1 4-in. valve, \$10 ; 1 3-in. valve, \$7.50.... | 17 | 50 | | | | |
| 1 double branch, \$2.85 ; 1 6-in. pipe, \$2.60 | 5 | 45 | | | | |
| 1 4-in. sleeve, \$4.22 ; 2 valve boxes, \$3.10 | 7 | 32 | | | | |
| 2 round valve chamber tops, \$15.24 ; 1 6 x 6 single branch, \$2.70..... | 17 | 94 | | | | |
| Sleeves, etc. | 3 | 22 | | | | |
| | | | 51 | 43 | | |
| <i>New Six-foot Steel Intake Pipe.</i> | | | | | | |
| 10,794 ft. lumber, \$38.13 ; 4 frames, \$9.50 | 47 | 63 | | | | |
| Filling over conduit, \$160 ; boat hire, \$57 | 217 | 00 | | | | |
| Ferry fares, \$11.30 ; 2 gals. paint, \$2.00.. | 13 | 30 | | | | |
| Repairs, \$6 ; consultation fees, \$120... | 126 | 00 | | | | |
| Labor | 356 | 26 | | | | |
| | | | 760 | 19 | | |
| | | | | | 14,061 | 24 |
| <i>Carried forward</i> | | | | | 151,599 | 95 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-------|----|-------|----|---------|----|
| <i>Brought forward</i> | | | | | 151,599 | 95 |
| RENEWALS. | | | | | | |
| <i>House Services.</i> | | | | | | |
| 461 single iron boxes | 339 | 19 | | | | |
| 346 double iron boxes | 392 | 62 | | | | |
| 520 stop cock rods, \$116.16 ; 123 lbs. lead pipe, \$54.14 | 170 | 30 | | | | |
| 42 brass screwed nipples, \$10.74 ; cement service plates, \$5 | 15 | 74 | | | | |
| 37 driving nipples, \$8.57 ; round service plates, \$6 | 14 | 57 | | | | |
| 399 single cocks, \$243.56 ; 23 double cocks, \$28.11 | 271 | 67 | | | | |
| 402 brass couplings | 145 | 55 | | | | |
| Jute, copper wire, handles and tallow | 1 | 22 | | | | |
| Labor | 4,299 | 99 | | | | |
| | | | | | 5,650 | 85 |
| SPECIAL SERVICES. | | | | | | |
| <i>Additional Main for Fire Protection.</i> | | | | | | |
| Contract | | | 101 | 02 | | |
| <i>Bathurst Street Main to Bertram's Yard.</i> | | | | | | |
| Contract | | | 76 | 69 | | |
| <i>Colborne Street Main, Yonge to Church.</i> | | | | | | |
| Contract | | | 240 | 34 | | |
| <i>Don River Main on West Side.</i> | | | | | | |
| Contract | | | 60 | 49 | | |
| <i>Filling in Old Filtering Basin.</i> | | | | | | |
| Contract | | | 617 | 69 | | |
| <i>Improved Water Services.</i> | | | | | | |
| Contract | | | 39 | 94 | | |
| <i>Improved Fire Protection.</i> | | | | | | |
| Contract | | | 171 | 21 | | |
| <i>King Street Main, Simcoe to Spadina.</i> | | | | | | |
| 12 6-in. pipes, \$31.20 ; 2 6 x 6 double branches, \$5.70 | 36 | 90 | | | | |
| <i>Carried forward</i> | 36 | 90 | 1,307 | 38 | 157,250 | 80 |

| | \$ c. | \$ c. | \$ c. |
|---|----------|----------|------------|
| <i>Brought forward</i> | 36 90 | 1,307 38 | 157,250 80 |
| 30 $\frac{3}{8}$ -in. brass screwed nipples, \$7.62; 15 6-in. sleeves, \$20.70 | 30 32 | | |
| 11 round valve chamber tops, \$82.50; 8-in. sleeves, \$3.09 | 85 58 | | |
| 2 reducers, \$5.70; 2 hydrants, \$58 | 63 70 | | |
| 10 12 x 6 single branches, \$51.36; bend sleeves, \$8.26 | 59 62 | | |
| 3 12-in. caps, \$5.19; 5 6-in. valves, \$65 .. | 70 19 | | |
| 174 12-in. pipes, \$2,884.31; 7 12-in. valves, \$195.65 | 3,079 96 | | |
| 2 12 x 12 single branches | 13 36 | | |
| Sundry fittings | 7 45 | | |
| Contract | 1,162 63 | | |
| Labor | 228 37 | | |
| | | 4,838 08 | |
| <i>Lane in Rear of Horticultural Gardens.</i> | | | |
| 1 hydrant, \$27; 1 6 x 6 single branch, \$2.13 | 29 13 | | |
| 23 lengths of 6-in. pipe, \$110.40; 1 6-in. valve, \$13 | 123 40 | | |
| 1 round valve chamber top and centre ... | 7 62 | | |
| Labor | 106 45 | | |
| | | 266 60 | |
| <i>O'Hara Avenue Main, Marion to 650 ft. N.</i> | | | |
| Contract | | 42 72 | |
| <i>Parkdale Water Supply.</i> | | | |
| Contract | | 240 60 | |
| <i>Queen Street Main, Yonge to Simcoe.</i> | | | |
| Contract | | 207 44 | |
| <i>Queen Street Main, Simcoe to Soho.</i> | | | |
| Contract | | 177 82 | |
| <i>Queen Street, Soho to Spadina.</i> | | | |
| Contract | | 91 49 | |
| <i>Queen Street, Spadina to Bathurst.</i> | | | |
| Contract | | 150 00 | |
| <i>Queen Street, Bathurst to Niagara.</i> | | | |
| Contract | | 118 42 | |
| <i>Carried forward</i> | | 7,440 55 | 157,250 80 |

| | \$ | c. | \$ | c. | \$ | c. |
|---|-----|-----|-------|----|---------|----|
| <i>Brought forward</i> | ... | ... | 7,440 | 55 | 157,250 | 80 |
| <i>Repairs to Water Works Dock.</i> | | | | | | |
| 39,303 ft. lumber, \$525.68 ; boiled oil, \$2.70 | 528 | 38 | | | | |
| 200 lbs. nails, \$3.55 ; paint, dryers and oxide, \$1.12 | 4 | 67 | | | | |
| Labor | 259 | 14 | | | | |
| | | | 792 | 19 | | |
| | | | | | 8,232 | 74 |
| Total..... | | | | | 165,483 | 54 |

NOTE. For Schedule No. 1, "Cash Expenditure on Maintenance Account," etc., see page 134.
For Schedule No. 10, "Analysis of Expenditure at Main Pumping Station" see page 156.

SCHEDULE No. 2.

STATEMENT OF WATER PUMPED BY ENGINES NOS. 1, 2 AND 3 FOR THE YEAR 1899.

| Month. | No. of Days on which Engines were Working. | | | Number of Hours Working Each Month. | | | Number of Strokes for Each Engine per Month. | | | Quantity of Water Pumped per Month by Each Engine in Imp. Gals. Gross. | | | Total Quantity Pumped in Imp. Gals. Gross. | Percentage of Slip. | Total Quantity Pumped in Imp. Gals. Net. | Average Pressure on Pumps | Average Level of Water in Well Below Zero. | Total Quantity of Coal Consumed per Month by Nos. 1, 2 and 3 Engines. | Coal Consumed while Banking Fires, Etc. | Coal Consumed while Pumping. |
|------------------|--|--------|--------|-------------------------------------|--------|--------|--|--------|---------|--|------------|-------------|--|---------------------|--|---------------------------|--|---|---|------------------------------|
| | No. 1. | No. 2. | No. 3. | No. 1. | No. 2. | No. 3. | No. 1. | No. 2. | No. 3. | No. 1. | No. 2. | No. 3. | | | | | | | | |
| | | | | h. m. | h. m. | h. m. | | | | | | | | | | Lbs. | Ft. In. | Tons. Lbs. | Tons. Lbs. | Tons. Lbs. |
| January |  |  |  | .. .. | .. .. | .. .. |  |  |  |  |  |  |  | 6 | | | | 48 1,330 | 48 | ..... |
| February | 25 | | | 33 10 | .. .. | .. .. | 267,412 | | | 60,969,936 | | | 60,969,936 | 6 | 57,311,740 | 95.0 | 6 11 | 201 470 | 13 1,060 | 165 1,705 |
| March | 5 | | | 30 30 | .. .. | .. .. | 23,791 | | | 5,424,348 | | | 5,424,348 | 6 | 5,098,887 | 95.6 | 5 9 | 21 1,120 | 2 | 15 1,000 |
| April | 2 | 8 | | 7 30 | 59 25 | .. .. | 5,904 | 45,593 | | 1,346,112 | 20,927,187 | | 22,273,299 | 6 | 20,936,901 | 93.7 | 4 7 | 72 610 | 4 | ... 55 |
| May | 4 | | | 19 20 | .. .. | .. .. | 15,789 | | | 3,599,892 | | | 3,599,892 | 6 | 3,383,899 | 97.2 | 5 3 | 19 1,590 | 5 1,191 | 9 620 |
| June | 2 | | | 56 35 | .. .. | .. .. | 45,559 | | | 10,387,452 | | | 10,387,452 | 6 | 9,761,205 | 96.4 | 5 10 | 43 020 | 2 516 | 25 1,667 |
| July | 28 | | | 25 40 | .. .. | .. .. | 202,310 | | | 46,126,680 | | | 46,126,680 | 6 | 43,359,079 | 95.7 | 5 10 | 131 380 | 11 712 | 117 1,242 |
| August | 27 | 1 | | 29 05 | 1 50 | .. .. | 227,011 | 993 | | 51,758,708 | 455,787 | | 52,214,295 | 6 | 49,081,437 | 95.2 | 6 6 | 185 750 | 13 016 | 130 145 |
| September | 11 | 2 | | 87 50 | 23 55 | .. .. | 71,750 | 13,518 | | 16,359,000 | 6,204,762 | | 22,563,762 | 6 | 21,209,936 | 95.7 | 6 6 | 59 490 | 4 916 | 61 870 |
| October | 2 | 1 | 3 | 9 35 | 15 20 | 33 20 | 5,895 | 9,520 | 25,482 | 1,344,060 | 4,369,680 | 12,384,252 | 18,097,992 | 6 | 17,012,113 | 89.8 | 4 3 | 35 030 | 12 1,480 | 49 500 |
| November | 21 | 1 | | 179 00 | 1 10 | .. .. | 139,806 | 807 | | 31,875,768 | 370,413 | | 32,246,181 | 6 | 30,311,110 | 94.8 | 6 3 | 114 1,680 | 8 350 | 83 500 |
| December | 12 | | 19 | 249 10 | .. .. | 388 05 | 177,760 | | 302,426 | 40,529,280 | | 146,979,036 | 187,508,316 | 6 | 176,257,817 | 94.7 | 6 1 | 452 490 | 35 | 514 250 |
| Totals.. | 139 | 13 | 22 | 1,521 25 | 101 40 | 421 25 | 1,182,987 | 70,431 | 327,908 | 269,721,036 | 32,327,829 | 159,363,288 | 461,412,153 | ... | 433,727,424 | ... | ..... | 1,387 1,060 | 190 541 | 1,227 519 |
| Monthly averages | | | | 138 19 | 20 20 | 210 42 | 107,514 | 14,086 | 163,954 | 24,520,094 | 6,465,565 | 79,681,614 | 41,916,557 | ... | 39,429,766 | 94.9 | 5 9 | 126 278 | 13 711 | 111 956 |
| Daily averages | | | | 10 56 | 7 49 | 19 09 | 8,511 | 5,418 | 11,905 | 1,940,439 | 2,486,756 | 7,243,785 | 2,651,794 | ... | 2,492,686 | ... | ..... | 7 1,948 | 1,842 | 7 106 |

SCHEDULE No. 3.

STATEMENT OF WATER PUMPED BY ENGINES NOS. 4 AND 5 FOR THE YEAR 1899.

| Month. | No. of Days on which Engines were working. | | Number of Hours working each Month. | | Number of Strokes made by Engines each Month. | | Quantity of Water Pump'd each Month by each Engine—Imperial Gallons—Gross. | | Total Quantity Pumped by Nos. 4 & 5 Engines. Imp. Gallons Gross. | Percentage of Ship. | Total Quantity Pumped. Imp. Gallons Net. | Average Pressure on Pumps. | Average Lift by Engines. | Total Quantity of Coal used under Boilers each Month. | Coal Consumed for Banking Fires. | | Coal Consumed while Pumping. | |
|---------------------|--|--------|-------------------------------------|----------|---|------------|--|---------------|--|---------------------|--|----------------------------|--------------------------|---|----------------------------------|--|------------------------------|--|
| | No. 4. | No. 5. | No. 4. | No. 5. | No. 4. | No. 5. | No. 4. | No. 5. | | | | | | | | | | |
| | | | h. m. | h. m. | | | | | | | | Pounds. | Ft. In. | Tons. Lbs. | Tons. Lbs. | | Tons. Lbs. | |
| January | 31 | 31 | 738 30 | 734 45 | 1,524,252 | 1,585,674 | 321,617,172 | 332,991,540 | 654,608,712 | 2 | 641,516,538 | 95.7 | 19 8 | 911 1,230 | 56 1,142 | | 855 088 | |
| February | 28 | 28 | 666 25 | 666 00 | 1,404,519 | 1,479,860 | 296,353,509 | 310,770,600 | 607,124,109 | 2 | 594,981,627 | 95.0 | 21 2 | 819 1,180 | 53 858 | | 766 322 | |
| March..... | 31 | 31 | 730 30 | 736 15 | 1,505,416 | 1,588,836 | 317,642,776 | 333,655,560 | 651,298,336 | 2 | 638,272,369 | 95.5 | 19 5 | 905 1,115 | 62 000 | | 843 1,115 | |
| April | 30 | 29 | 715 05 | 653 05 | 1,425,122 | 1,367,743 | 300,700,742 | 287,226,030 | 587,926,772 | 2 | 576,168,237 | 92.5 | 18 9 | 800 1,420 | 60 1,500 | | 799 1,920 | |
| May..... | 31 | 31 | 711 30 | 732 45 | 1,459,827 | 1,562,625 | 308,023,497 | 328,151,250 | 636,174,747 | 2 | 623,451,252 | 96.2 | 18 10 | 902 1,680 | 23 500 | | 879 1,180 | |
| June | 30 | 30 | 712 25 | 709 05 | 1,518,581 | 1,557,977 | 320,120,591 | 327,175,170 | 647,595,761 | 2 | 634,643,846 | 95.5 | 22 10 | 915 880 | 22 1,000 | | 892 1,880 | |
| July..... | 31 | 31 | 734 45 | 726 30 | 1,574,405 | 1,632,399 | 332,199,455 | 342,803,790 | 675,003,245 | 2 | 661,503,180 | 95.6 | 23 6 | 1,037 1,070 | 23 500 | | 1,014 570 | |
| August | 31 | 31 | 735 35 | 733 45 | 1,609,917 | 1,668,199 | 339,692,487 | 350,321,790 | 690,014,277 | 2 | 676,213,991 | 95.1 | 24 3 | 1,028 1,910 | 23 500 | | 1,005 1,410 | |
| September..... | 30 | 30 | 706 15 | 708 50 | 1,525,406 | 1,593,368 | 321,860,666 | 334,607,280 | 656,467,946 | 2 | 643,338,588 | 95.7 | 23 8 | 1,002 80 | 26 000 | | 976 80 | |
| October | 31 | 30 | 724 35 | 673 20 | 1,519,406 | 1,462,064 | 320,594,666 | 307,033,440 | 627,628,106 | 2 | 615,075,544 | 93.1 | 22 9 | 930 600 | 52 674 | | 877 1,926 | |
| November | 30 | 30 | 712 40 | 706 45 | 1,426,638 | 1,488,153 | 301,020,618 | 312,512,130 | 613,532,748 | 2 | 601,262,093 | 95.2 | 23 9 | 930 1,240 | 53 1,144 | | 877 096 | |
| December | 31 | 18 | 712 00 | 378 15 | 1,528,219 | 817,242 | 322,454,209 | 171,620,820 | 494,075,029 | 2 | 484,193,528 | 75.0 | 18 8 | 708 1,470 | 55 713 | | 653 757 | |
| Totals..... | 365 | 350 | 8,600 15 | 8,159 20 | 18,021,708 | 17,804,140 | 3,802,580,888 | 3,738,869,400 | 7,541,449,788 | .... | 7,390,620,793 | 1119.5 | 257 0 | 10,953 1,875 | 512 531 | | 10,441 1,344 | |
| Monthly Averages .. | 30.41 | 29.16 | 716 41 | 679 56 | 1,501,809 | 1,483,678 | 316,881,699 | 311,572,450 | 628,454,149 | .... | 615,885,066 | 93.3 | 21 5 | 912 1,656 | 42 1,377 | | 870 279 | |
| Daily Averages .... | ..... | ..... | 23 33 | 23 19 | 49,374 | 50,869 | 10,418,028 | 10,682,484 | 21,094,964 | .... | 20,673,065 | ..... | ..... | 30 1,280 | 1 865 | | 29 415 | |



SCHEDULE No. 4.
RECORD OF WATER RE-PUMPED AT HIGH LEVEL STATION FOR THE YEAR 1899.

| Month. | Number of Hours Engines working. | | Number of Revolutions made by Pumps. | | Quantity of Water Re-pumped. | | Total Quan- tity of Water Re-pumped by both En- gines in Imp Gallons Gross. | Percentage of Slip. | Total Quan- tity of Water Re-pumped Imp. Gallons Net. | Average Pressure on Force Mains. | Average Pressure on Suction Mains. | Total Quan- tity of Coal (consumed under Boilers. | | Coal Con- sumed for Banking Fires, Raising Steam, etc. | | Coal Con- sumed while Pumping. | |
|----------------------|-------------------------------------|----------|---|------------|---------------------------------|---------------|---|---------------------|---|-------------------------------------|---------------------------------------|---|-------|---|-------|--------------------------------------|-------|
| | No. 1. | No. 2. | No. 1. | No. 2. | No. 1. | No. 2. | | | | | | Tons. | Lbs. | Tons. | Lbs. | Tons. | Lbs. |
| January | h. m | h. m. | | | | | | | | | | Tons. | Lbs. | Tons. | Lbs. | Tons. | Lbs. |
| January | 526 10 | 495 05 | 1,067,071 | 1,294,399 | 48,551,730 5 | 58,895,154.5 | 107,446,885 | 1 | 106,372,416 | 52.62 | 13.21 | 131 | 700 | 11 | 400 | 120 | 300 |
| February | 476 00 | 448 00 | 970,535 | 1,230,321 | 44,159,342.5 | 55,979,742 | 100,139,084.5 | 1 | 99,137,693.5 | 52.52 | 12.72 | 108 | 590 | 10 | 1,000 | 97 | 1,290 |
| March | 525 30 | 496 28 | 1,024,795 | 1,304,577 | 46,628,172.5 | 59,358,253.5 | 105,986,426 | 1 | 104,926,562 | 52.92 | 15.20 | 112 | 780 | 10 | 1,700 | 101 | 1,080 |
| April | 509 45 | 477 00 | 917,841 | 1,336,931 | 41,761,765.5 | 60,830,360.5 | 102,592,126 | 1 | 101,566,205 | 52.83 | 15.93 | 118 | 280 | 10 | 1,700 | 107 | 580 |
| May | 520 30 | 514 30 | 892,864 | 1,488,582 | 40,625,312 | 67,730,481 | 108,355,793 | 1 | 107,272,235 | 53.48 | 18.99 | 85 | 900 | 11 | 1,100 | 73 | 1,800 |
| June | 507 00 | 483 00 | 896,995 | 1,451,632 | 40,813,272.5 | 66,019,256 | 106,862,528.5 | 1 | 105,793,903.5 | 54.27 | 17.37 | 94 | 820 | 10 | 1,700 | 83 | 1,120 |
| July | 527 00 | 496 00 | 948,837 | 1,513,633 | 43,172,083.5 | 68,870,301.5 | 112,042,385 | 1 | 110,921,961 | 54.46 | 17.43 | 116 | 590 | 11 | 925 | 104 | 1,665 |
| August | 527 00 | 496 00 | 949,186 | 1,551,022 | 43,187,963 | 70,571,501 | 113,759,464 | 1 | 112,621,869 | 54.67 | 15.73 | 101 | 690 | 10 | 1,700 | 90 | 990 |
| September | 510 00 | 479 00 | 824,043 | 1,404,812 | 37,493,956.5 | 63,918,946 | 101,412,902.5 | 1 | 100,398,773.5 | 54.49 | 16.96 | 114 | 1,460 | 10 | 1,700 | 103 | 1,760 |
| October | 527 00 | 496 00 | 817,927 | 1,479,734 | 37,215,678.5 | 67,327,897 | 104,543,575.5 | 1 | 103,498,139.5 | 54.62 | 17.41 | 107 | 1,000 | 11 | 400 | 96 | 600 |
| November | 509 30 | 479 30 | 739,939 | 1,460,414 | 33,667,224.5 | 66,448,837 | 100,116,061.5 | 1 | 99,114,900.5 | 54.58 | 14.96 | 105 | 1,390 | 10 | 1,700 | 94 | 1,690 |
| December | 527 00 | 492 30 | 745,402 | 1,573,709 | 33,915,791 | 71,603,759.5 | 105,519,550.5 | 1 | 104,464,355.5 | 54.63 | 17.34 | 135 | 1,240 | 11 | 400 | 124 | 840 |
| Totals | 6,192 25 | 5,853 03 | 10,795,435 | 17,089,769 | 491,192,292.5 | 777,584,489.5 | 1,268,776,782 | 1 | 1,256,089,014 | ..... | ..... | 1,331 | 110 | 132 | 425 | 1,198 | 1,715 |
| Monthly Averages .. | 516 02 | 487 45 | 899,619 | 1,424,147 | 40,932,691 | 64,798,707 | 105,731,397 | .... | 104,674,084 | 53.81 | 16.10 | 110 | 1,845 | 11 | 35 | 99 | 1,809 |
| Daily Averages | 16 11 | 16 02 | 29,576 | 46,821 | 1,345,732 | 2,130,368 | 3,476,100 | .... | 3,441,339 | 53.81 | 16.10 | 3 | 1,293 | .... | 724 | 3 | 569 |



| MONTH. | 1898. | | | | | | 1899. | | | | | |
|---------------|-----------------------|----------------------------|-----------------|----------------------|-------------|-----------------------|----------------------------|----------------------------|------------------------|-------------|-----|--|
| | Engine No. | Water. | | Coal. | | Engine No. | Water. | | Coal. | | | |
| | | Quantity Pumped. | Imp. Gals. Net. | Quantity Consumed. | Tons. Lbs. | | Quantity Pumped. | Imp. Gals. Net. | Quantity Consumed. | Tons. Lbs. | | |
| January | 1, 2 and 3 4 and 5 | 3,449,092 550,310,866 | 553,759,958 | 768 120 | 773 560 | 1, 2 and 3 4 and 5 | 641,516,538 | 641,516,538 | 48 1,430 911 1,250 | 960 660 | | |
| February | 1, 2 and 3 4 and 5 | 519,118,891 | 519,118,891 | 11 50 707 280 | 718 330 | 1, 2 and 3 4 and 5 | 57,311,740 594,981,627 | 57,311,740 594,981,627 | 204 470 819 1,180 | 1,023 1,650 | | |
| March | 1, 2 and 3 4 and 5 | 16,993,199 537,543,349 | 554,536,548 | 55 120 749 20 | 804 140 | 1, 2 and 3 4 and 5 | 5,038,887 638,272,369 | 5,038,887 638,272,369 | 21 1,120 905 1,115 | 927 235 | | |
| April | 1, 2 and 3 4 and 5 | 3,209,631 554,665,737 | 557,875,368 | 18 290 782 1,275 | 800 1,565 | 1, 2 and 3 4 and 5 | 20,936,901 573,168,237 | 20,936,901 573,168,237 | 72 610 860 1,420 | 933 30 | | |
| May | 1, 2 and 3 4 and 5 | 157,446,009 424,943,402 | 582,389,411 | 468 1,290 593 150 | 1,061 1,440 | 1, 2 and 3 4 and 5 | 3,383,899 623,451,252 | 3,383,899 623,451,252 | 19 1,590 902 1,680 | 922 1,270 | | |
| June | 1, 2 and 3 4 and 5 | 580,402,976 | 580,402,976 | 757 310 | 757 360 | 1, 2 and 3 4 and 5 | 9,764,205 634,643,846 | 9,764,205 634,643,846 | 43 20 915 880 | 958 900 | | |
| July | 1, 2 and 3 4 and 5 | 37,299,824 631,554,167 | 668,853,991 | 153 690 834 60 | 987 750 | 1, 2 and 3 4 and 5 | 43,359,079 661,503,180 | 43,359,079 661,503,180 | 131 380 1,037 1,070 | 1,168 1,450 | | |
| August | 1, 2 and 3 4 and 5 | 41,267,316 614,523,874 | 655,791,190 | 147 780 848 740 | 995 1,520 | 1, 2 and 3 4 and 5 | 49,081,437 676,213,891 | 49,081,437 676,213,891 | 185 750 1,028 1,910 | 1,214 660 | | |
| September | 1, 2 and 3 4 and 5 | 36,547,273 587,030,760 | 615,601,661 | 135 10 806 460 | 1,004 1,560 | 1, 2 and 3 4 and 5 | 21,409,936 643,338,588 | 21,409,936 643,338,588 | 59 490 1,002 80 | 1,061 570 | | |
| October | 1, 2 and 3 4 and 5 | 58,507,876 557,093,785 | 623,608,663 | 216 710 788 850 | 941 470 | 1, 2 and 3 4 and 5 | 17,012,113 615,075,544 | 17,012,113 615,075,544 | 85 30 930 600 | 965 630 | | |
| November | 1, 2 and 3 4 and 5 | 172,216,675 425,857,097 | 598,073,772 | 474 720 598 1,550 | 1,073 270 | 1, 2 and 3 4 and 5 | 50,311,410 601,262,095 | 50,311,410 601,262,095 | 114 1,680 930 1,240 | 1,045 920 | | |
| December | 1, 2 and 3 4 and 5 | 149,204,463 477,117,840 | 626,322,303 | 434 145 698 1,035 | 1,132 1,180 | 1, 2 and 3 4 and 5 | 176,257,817 484,195,528 | 176,257,817 484,195,528 | 452 430 708 1,470 | 1,160 1,960 | | |
| Totals | | | 7,136,334,102 | | 11,650 145 | | | 7,824,348,217 | 12,541 987 | 12,541 987 | 935 | |
| Daily average | | | 19,551,000 | | 30 33 | | | 21,435,609 | | 23 1,624 | | |

SCHEDULE No. 6.
COMPARATIVE STATEMENT SHOWING NUMBER OF GALLONS PUMPED, QUANTITY AND COST OF FUEL, ETC.,
FROM 1876 TO 1899, INCLUSIVE.

| YEAR. | Total Water Pumped — Imp. Gals. | Quantity of Fuel. Lbs. | Total Cost of Fuel. \$ c. | Average Daily Quantity of Water Pumped — Imp. Gals. | Average Daily Consumption of Coal. Lbs. | Water Pumped per Pound of Fuel. — Imp. Gals. |
|-------|--|------------------------------|------------------------------------|---|--|--|
| 1876 | 1,625,139,876 | 6,998,282 | 19,645 75 | 4,451,202 | 19,093 | 232.55 |
| 1877 | 2,633,433,932 | 10,407,992 | 25,556 29 | 7,214,887 | 28,515 | 253.02 |
| 1878 | 1,417,370,918 | 8,120,000 | 15,196 20 | 3,883,208 | 22,246 | 174.55 |
| 1879 | 1,610,104,542 | 10,872,211 | 19,313 07 | 4,411,245 | 29,787 | 148.09 |
| 1880 | 1,785,859,706 | 11,694,809 | 28,455 72 | 4,879,422 | 31,953 | 152.17 |
| 1881 | 1,910,430,419 | 12,391,874 | 31,410 04 | 5,234,056 | 33,950 | 154.18 |
| 1882 | 2,108,933,115 | 11,685,556 | 30,170 64 | 5,777,899 | 32,015 | 180.47 |
| 1883 | 2,809,965,484 | 17,266,679 | 43,529 08 | 7,698,511 | 47,306 | 162.74 |
| 1884 | 3,645,412,082 | 19,920,782 | 52,525 56 | 9,960,224 | 54,428 | 183.00 |
| 1885 | 3,537,482,598 | 18,644,465 | 46,589 27 | 9,691,733 | 51,081 | 189.73 |
| 1886 | 4,134,376,998 | 19,285,371 | 41,979 32 | 11,327,060 | 52,837 | 214.37 |
| 1887 | 4,417,938,169 | 23,283,900 | 50,051 85 | 12,103,940 | 63,791 | 189.74 |
| 1888 | 4,941,964,514 | 20,457,935 | 46,600 77 | 11,073,875 | 56,049 | 197.57 |
| 1889 | 4,148,781,634 | 19,231,940 | 44,135 10 | 11,366,525 | 52,690 | 215.72 |
| 1890 | 5,249,760,226 | 34,615,830 | 55,239 99 | 14,382,904 | 67,336 | 212.96 |
| 1891 | 6,207,656,403 | 29,300,240 | 60,012 77 | 17,007,275 | 80,291 | 211.86 |
| 1892 | 6,659,925,630 | 34,505,875 | 71,805 25 | 18,246,371 | 94,278 | 193.00 |
| 1893 | 6,646,021,438 | 26,013,840 | 64,702 86 | 18,208,278 | 71,270 | 255.47 |
| 1894 | 6,589,492,142 | 26,822,145 | 54,902 85 | 18,053,403 | 73,485 | 245.67* |
| 1895 | 6,639,680,215 | 21,178,879 | 40,221 85 | 18,190,902 | 58,024 | 313.5 |
| 1896 | 6,781,187,980 | 18,606,508 | 25,307 90 | 18,527,836 | 50,837 | 364.4 |
| 1897 | 6,723,757,030 | 20,711,259 | 26,880 50 | 18,421,253 | 56,743 | 324.64 |
| 1898 | 7,136,334,102 | 22,100,145 | 27,572 00 | 19,551,600 | 60,548 | 322.91 |
| 1899 | 7,824,348,217 | 24,682,935 | 26,684 57 | 21,436,569 | 67,624 | 316.99 |

* A larger percentage was allowed for slip in 1894 and 1895, than in other years.

SCHEDULE No. 7.
QUANTITY OF WATER PUMPED AND QUANTITY CONSUMED DURING EACH MONTH OF 1899, WITH AMOUNT OF DAILY CONSUMPTION.

| Month. | Total Quantity Pumped per Month in Imperial Gallons | Quantity Stored in Reservoir at end of each Month. Imperial Gallons | Quantity Consumed during each Month. Imperial Gallons | Average Daily Consumption of Water. Imperial Gallons | Average Daily Consumption of Coal at Main Pumping Station |
|---|---|---|---|--|---|
| Stored in Reservoir on 31st December, 1898. | | | | | |
| January | 611,516,538 | 20,005,423 | 641,126,093 | 20,681,487 | 30 1,957 |
| February | 652,293,367 | 20,395,868 | 618,894,268 | 23,174,795 | 36 1,130 |
| March | 643,371,256 | 26,250,614 | 640,915,609 | 20,674,697 | 29 1,814 |
| April | 597,105,138 | 21,404,797 | 598,950,955 | 19,965,032 | 31 201 |
| May | 626,835,151 | 26,250,614 | 624,989,334 | 20,160,946 | 29 1,525 |
| June | 644,408,051 | 22,981,860 | 647,676,805 | 21,589,226 | 31 1,896 |
| July | 704,862,259 | 23,998,244 | 703,845,875 | 22,704,705 | 37 1,401 |
| August | 725,275,428 | 16,527,162 | 732,766,510 | 23,637,629 | 39 344 |
| September | 664,548,524 | 25,835,897 | 655,239,789 | 21,841,326 | 35 752 |
| October | 632,087,658 | 26,665,331 | 631,258,223 | 20,363,168 | 31 278 |
| November | 631,573,505 | 26,250,614 | 631,988,222 | 21,066,274 | 34 1,697 |
| December | 660,451,345 | 26,872,689 | 659,829,270 | 21,281,815 | 37 902 |
| Totals | 7,824,318,217 | | | | 405 1,897 |
| Averages | 652,029,018 | | | 21,428,675 | 33 1,658 |

SCHEDULE No. 8.
COMPARATIVE STATEMENT SHOWING INCREASE OF DEPARTMENT YEARLY, 1875 TO 1899 INCLUSIVE.

| YEAR. | Average Daily Consumption of Water. | Population. | Average Daily Consumption of Water per Capita for all Purposes. | Total Number of House Serves in use in each year. | Number of House Serves put in use in each year. | Total Number of Hoists in use in each year. | Total Number of Meters in use each year. | Total Number of Miles of Mains in use each year. | Average Pressure on Pumps. | | | | |
|-------|-------------------------------------|-------------|---|---|---|---|--|--|----------------------------|----------------------------|-------------------------|----------------------|----------------------|
| | | | | | | | | | No. 1, Worthington Engine. | No. 2, Worthington Engine. | No. 3, Inglis & Hunter. | No. 4, Blake Engine. | No. 5, Blake Engine. |
| 1875 | 3,424,000 | 68,678 | Gallons. 49.86 | 2,769 | 842 | ..... | ..... | 49,810 | 88.10 | ..... | ..... | ..... | ..... |
| 1876 | 4,451,202 | 71,693 | 62.09 | 3,512 | 740 | ..... | ..... | 80,250 | 88.78 | 97.51 | ..... | ..... | ..... |
| 1877 | 2,812,000 | 67,386 | 41.74 | 4,518 | 1,006 | ..... | ..... | 107,570 | 83.33 | 97.69 | ..... | ..... | ..... |
| 1878 | 3,883,208 | 70,867 | 54.79 | 6,707 | 2,189 | 28 | ..... | 110,240 | 89.65 | 96.64 | ..... | ..... | ..... |
| 1879 | 4,411,245 | 73,813 | 59.76 | 8,568 | 1,861 | 47 | ..... | 111,290 | 95.28 | 99.04 | ..... | ..... | ..... |
| 1880 | 4,879,422 | 75,110 | 64.96 | 9,582 | 1,014 | 66 | ..... | 113,312 | 98.22 | 99.52 | ..... | ..... | ..... |
| 1881 | 5,234,056 | 76,934 | 68.03 | 12,236 | 2,654 | 79 | ..... | 115,518 | 96.32 | 100.78 | ..... | ..... | ..... |
| 1882 | 5,777,899 | 81,372 | 71.01 | 14,062 | 1,826 | 94 | ..... | 116,145 | 94.85 | 101.66 | ..... | ..... | ..... |
| 1883 | 7,698,511 | 91,796 | 83.87 | 16,276 | (1,766 448) | 109 | ..... | 131,352 | 94.27 | 103.49 | ..... | ..... | ..... |
| 1884 | 9,960,224 | 105,211 | 94.66 | 18,363 | 2,087 | 130 | ..... | 138,301 | 99.146 | 107.036 | ..... | ..... | ..... |
| 1885 | 9,706,127 | 111,800 | 86.82 | 20,707 | 2,344 | 140 | 195 | 143,257 | 98.84 | 106.45 | 103.88 | ..... | ..... |
| 1886 | 11,344,337 | 118,403 | 95.81 | 23,643 | 2,936 | 152 | 256 | 156,042 | 104.88 | 104.92 | 104.67 | ..... | ..... |
| 1887 | 12,060,610 | 126,169 | 95.59 | 26,893 | 3,315 | 176 | 332 | 165,894 | ..... | ..... | ..... | ..... | ..... |
| 1888 | 11,069,784 | 166,809 | 66.36 | 29,883 | 3,055 | 174 | 897 | 182,625 | 93.41 | 92.36 | 94.57 | ..... | ..... |
| 1889 | 11,378,962 | 175,000 | 65.02 | 34,056 | 3,288 | 222 | 1,347 | 212,832 | 94.25 | 94.82 | 94.92 | ..... | ..... |
| 1890 | 14,434,722 | 185,000 | 78.02 | 36,192 | 2,191 | 229 | 1,479 | 229,257 | 92.83 | 93.55 | 93.58 | ..... | ..... |
| 1891 | 17,007,275 | 188,904 | 90.03 | 38,250 | 2,111 | 230 | 1,544 | 237,967 | 93.33 | 93.66 | 93.91 | ..... | ..... |
| 1892 | 18,246,371 | 188,904 | 96.59 | 39,401 | 1,200 | 288 | 1,535 | 242,561 | ..... | ..... | ..... | ..... | ..... |
| 1893 | 18,208,278 | 188,904 | 96.38 | 39,927 | 526 | 300 | 1,600 | 244,964 | 94.18 | 94.18 | 94.18 | 96.37 | ..... |
| 1894 | 18,056,881 | 188,904 | 95.58 | 40,326 | 399 | 258 | 1,580 | 245,478 | 94.88 | 94.88 | 94.88 | 95.24 | 95.24 |
| 1895 | 18,192,053 | 190,000 | 95.74 | 40,683 | 337 | ..... | 1,500 | ..... | 94.88 | 94.88 | 94.88 | 95.05 | 95.05 |
| 1896 | 18,527,836 | 195,987 | 94.53 | 40,951 | 313 | 230 | 1,553 | 249,627 | 94.5 | 94.5 | 94.5 | 95.4 | 95.4 |
| 1897 | 18,378,722 | 195,987 | 93.77 | 41,315 | 364 | 230 | 1,553 | 252,646 | 95.1 | 95.1 | 95.1 | 95.7 | 95.7 |
| 1898 | 19,576,957 | 200,000 | 97.88 | 41,838 | 523 | 230 | 1,580 | 255,625 | 95.3 | 95.3 | 95.3 | 95.9 | 95.9 |
| 1899 | 21,436,569 | 225,000 | 95.27 | 42,552 | 714 | 230 | 1,598 | 257,613 | 94.9 | 94.9 | 94.9 | 95.3 | 95.3 |

SCHEDULE No. 9.
RECORD OF GAUGING AT ROSEHILL RESERVOIR FOR EACH MONTH OF 1899.

| Month. | Elevation of Lowest Water Above Zero. | | Elevation of Highest Water Above Zero. | | Average Eleva- tion Above Zero. | | Average Depth in Reservoir. | | Average Contents in Imperial Gallons. |
|-----------------|---|-----|--|-----|---------------------------------------|-----|--------------------------------|-----|---|
| | Ft. | In. | Ft. | In. | Ft. | In. | Ft. | In. | |
| January | 210 | 5 | 212 | 2 | 211 | 4 | 15 | 4 | 21,388,013 |
| February | 205 | 3 | 212 | 7 | 209 | 11 | 13 | 11 | 18,057,170 |
| March | 212 | 4 | 213 | 10 | 213 | 5 | 17 | 5 | 26,457,972 |
| April | 211 | 5 | 214 | 0 | 213 | 0 | 17 | 0 | 25,421,180 |
| May | 212 | 11 | 214 | 4 | 213 | 6 | 17 | 6 | 26,665,331 |
| June | 211 | 3 | 214 | 5 | 213 | 1 | 17 | 1 | 25,628,538 |
| July | 211 | 6 | 213 | 9 | 212 | 8 | 16 | 8 | 24,608,074 |
| August | 209 | 3 | 214 | 1 | 211 | 11 | 15 | 11 | 22,782,630 |
| September | 210 | 0 | 214 | 7 | 213 | 0 | 17 | 0 | 25,421,180 |
| October | 210 | 4 | 214 | 4 | 213 | 2 | 17 | 2 | 25,835,897 |
| November | | | | | | | | | |
| December | 211 | 4 | 214 | 9 | 213 | 2 | 17 | 2 | 25,835,897 |
| Averages | | | | | 212 | 6 | 16 | 6 | 24,315,625 |

NOTE.—The returns for the month of November are omitted from this Schedule the Reservoir being empty for its annual cleaning.

The average depth of water in the Reservoir for the year (exclusive of November) was 16 ft. 8 in., equal to an elevation of 212 ft. 6 in. above zero.

SCHEDULE No. 11.

STATEMENT OF MAINS LAID DURING THE YEAR 1899.

| Street, Avenue, Etc. | Side of Street. | Location. | Length in Feet. |
|-----------------------------|-----------------|--|-----------------|
| 12-IN. MAINS: | | | |
| King west | South | From Simcoe St. to 23 ft. w. of Spadina Av. | 2,553½ |
| 6-IN. SUB-MAINS: | | | |
| Atlantic Av | West | From Liberty St. 396 ft. south | 464 |
| Crescent Rd. | South | " Yonge St. to 441 ft. east | 470 |
| Cummings | South | " Bolton Ave. to 363 ft. east | 387½ |
| Gerrard (lane off) .. | West | " Gerrard St. n. to end of lane rear of Horticultural Gardens. | 279½ |
| Gladstone Av | West | " Lindsey St. 128 ft. n. to end | 143 |
| Havelock | West | " Hepburn St. 439 ft. n. | 439 |
| Hepburn | North | " Havelock St. 34 ft. e. to old main... | 86 |
| Peter | East | Across the intersection of King St. | 92 |
| Scarth Rd .. | East | From 217 ft. n. of Crescent Rd. 345 ft. n.. | 355 |
| Simpson Av | North | " Howland Rd. 306 ft. w. | 322 |
| St. George | West | Extension south to 120 ft. s. of Bernard Av | 377 |
| " | West | " north from 300 ft. to 521 ft. n. of Lowther Ave. | 221 |
| Ulster | North | From Main on Bathurst St. to valve | 10 |
| Wright Av | North | " Roncesvalles Ave. 470 ft. e. | 483½ |
| Total | | | 4,129½ |
| 4-IN SUB-MAINS: | | | |
| Bruce | North | From Givens St. to Shaw St. | 310 |
| Danforth Av | South | " Jones Ave. to Ross St | 1,354 |
| Exhibition Gr'ds .. | ..... | Extension to Machinery Hall | 280 |
| Hickory | West | From St. Patrick St. n. to lane | 217 |
| Hogarth Av | North | " 142 ft. e. of Broadview Ave. 724 ft. e. | 724 |
| Ulster .. | North | " Bathurst St. 154 ft. e. to 3-in. main. | 154 |
| Total | | | 3,039 |
| 3-IN. SUB-MAINS: | | | |
| Hickory | West | From end of 4-in. main to manhole B.O... | 14½ |
| 2-IN. SERVICE MAINS: | | | |
| Chatham | North | From Ross St. 554 ft. e. | 580 |
| Ross | East | " Danforth Ave. to Chatham St. | 335½ |
| Total | | | 915½ |

THE FOLLOWING PIECE OF MAIN WAS TAKEN UP DURING THE YEAR 1899.

| Street, Avenue, Etc. | Side of Street. | Location. | Feet. |
|---|-----------------|--|-------|
| 8-IN. OLD FURNISS IRON: Peter Street | | Across intersection of King St. w..... | 92 |

SUMMARY OF MAINS.

Mains throughout the City of all sizes and descriptions, including those on Streets, Government, Private and other Property, at the end of 1899.

| Size. | Total length in feet in use at end of 1898. | Put in dur- ing 1899. | Taken out during 1899. | Total length in feet in use at end of 1899. |
|-------------------------------------|--|--------------------------|------------------------------|--|
| 36-in. mains..... | 2,780 | ..... | ..... | 2,780 |
| 30 " | 11,292 | ..... | ..... | 11,292 |
| 24 " | 27,779 | ..... | ..... | 27,779 |
| 20 " | 3,953 | ..... | ..... | 3,953 |
| 12 " | 243,829 | 2,553 $\frac{1}{2}$ | ..... | 246,382 $\frac{1}{2}$ |
| 10-in. sub-mains..... | 14,195 | ..... | ..... | 14,195 |
| 8 " " | 7,722 | ..... | ..... | 7,722 |
| 6 " " | 975,610 $\frac{3}{4}$ | 4,129 $\frac{1}{2}$ | ..... | 979,740 $\frac{1}{4}$ |
| 4 " " | 40,501 $\frac{1}{2}$ | 3,039 | ..... | 43,540 $\frac{1}{2}$ |
| 3 " " | 10,571 $\frac{1}{2}$ | 14 $\frac{1}{2}$ | ..... | 10,586 |
| 2-inch and 1-inch small mains | 3,993 | 915 $\frac{1}{2}$ | ..... | 4,908 $\frac{1}{2}$ |
| Old 8-inch iron mains | 6,175 | ..... | 92 | 6,083 |
| Old 8-inch cement mains..... | 1,240 | ..... | ..... | 1,240 |
| | 1,349,641 $\frac{3}{4}$ | 10,652 | 92 | 1,360,201 $\frac{3}{4}$ |

Total length of mains of all sizes in use at end of 1899—1,360,201 $\frac{3}{4}$ feet, or
257.613 miles.

SCHEDULE No. 12.

STATEMENT OF HYDRANTS PLACED IN POSITION DURING THE YEAR 1899.
NEW HYDRANTS PLACED IN POSITION.

| Street, Avenue, Etc. | Side of Street. | Location. |
|---|-----------------|---------------------------------------|
| <i>3-Way Hydrants—</i> | | |
| Borden | West | 7 ft. north of Vankoughnet Street. |
| Exhibition Gro'nds | | North of Machinery Hall. |
| High Park..... | East | 150 ft. north of Pavilion. |
| Horticultural Gardens, lane rear of Pavilion. | " | 231½ ft. north of Gerrard Street. |
| King west | South | 123 ft. west of John Street. |
| King west | " | 134½ ft. east of Dorset Street. |
| Simpson..... | North | 292½ ft. west of Howland Road. |
| Sumach | West | 10 ft. south of Winchester Street. |
| St. George..... | " | 9 ft. south of Bernard Avenue. |
| <i>2-Way Hydrants—</i> | | |
| Atlantic Ave..... | West | 175 ft. south of Liberty Street. |
| Atlantic Ave..... | " | 396 ft. south of Liberty Street. |
| Avenue Rd. | East | 7 ft. north of McPherson Avenue. |
| Bernard Ave..... | South | 10 ft. west of Avenue Road. |
| Birch Ave..... | North | 3 ft. east of Gange Avenue. |
| Crescent Rd | South | 15 ft. east of Yonge Street. |
| Cottingham | North | 217 ft. west of Gange Avenue. |
| Gladstone Ave.... | West | 126 ft. north of Lindsey Avenue. |
| Hogarth Ave. | North | 862 ft. east of Broadview Avenue. |
| McMaster Ave.... | South | 6 ft. west of Avenue Road. |
| Niagara | East | 179 ft. north of Wellington Avenue. |
| Queen east..... | North | 350 ft. east of Brooklyn Avenue. |
| Tranby Ave | " | 13 ft. west of Avenue Road. |
| Wright Ave | " | 450½ ft. east of Roncesvalles Avenue. |
| Wright Ave | " | 137 ft. east of Roncesvalles Avenue. |
| York | West | 25 ft. north of Wellington Street. |

3-WAY HYDRANTS REPLACING 2-WAY HYDRANTS ALREADY IN POSITION.

| | | |
|-------------------------|-------------|---|
| Aberdeen Ave | North | 220 ft. east of Ontario Street. |
| Admiral Rd | East | 560 ft. north of Lowther Avenue. |
| Amelia | South | S.-E. cor. of Parliament Street. |
| Augusta Ave..... | East | N.-E. cor. St. Patrick Street. |
| Bay | " | S.-E. cor. Queen Street west. |
| Bellevue Ave..... | West | Opposite College Street Fire Hall. |
| Breadalbane | South | S.-E. cor. St. Vincent Street. |
| Carlton | " | S.-W. cor. Sumach Street. |
| Church | West | N.-W. cor. Alexander Street. |
| Church | " | S.-W. cor. Gerrard Street. |
| Dundas | South | 74 ft. west of St. Clarens Avenue opp. Fire Hall. |
| Esplanade..... | North | 125 ft. west of Bay street. |
| Exhibition Gr'nds. | | 57 ft. south of Machinery Hall. |
| Front | South | 335 ft. west of York Street. |

SCHEDULE No. 12—Continued.

| Street. | Side of Street. | Location. |
|-------------------|-----------------|------------------------------------|
| Front | North | 320 ft. west of Yonge Street. |
| Henry..... | West | S.-W. cor. College Street. |
| Henry..... | " | 230 ft. north of Cecil Street. |
| King | South | 170½ ft. east of Frederick Street. |
| Main Pump'g St'n. | " | S.-E. cor. New Engine House. |
| Main Pump'g St'n. | " | S.-W. cor. New Engine House. |
| Markham | West | 183½ ft. south of Lennox Street. |
| Markham | " | 19 ft. north of Harbord Street. |
| New Fort | North | At N.-W. corner. |
| Parliament | East | 50 ft. north of Front Street. |
| Queen west | North | 115 ft. west of James Street. |
| Teraulay | East | S.-E. cor. of Alice Street. |
| York | West | 47½ ft. north of Front Street. |

THE FOLLOWING HYDRANTS HAVE BEEN REMOVED OFF THE STREETS DURING
THE YEAR OF 1899.

| Street, Avenue, etc. | Side of Street. | Location. |
|----------------------|-----------------|--------------------------------------|
| Massey | East | 100 ft. south of King Street, 3 way. |
| Niagara | West..... | 185 ft. north of Wellington Avenue. |
| Winchester | South | S.-W. cor. of Sumach Street. |
| York | East | 68½ ft. north of Wellington Street. |

SUMMARY OF HYDRANTS.

| | |
|--|-------|
| Number of Hydrants on streets at end of 1898 | 2,954 |
| " " private and other property at end of 1898..... | 83 |
| | 3,037 |
| There were 4 Hydrants removed from off the streets and 27 2-way Hydrants replaced by 3-way Hydrants during 1899 | 31 |
| | 3,006 |
| Number of additional Hydrants set on streets during 1899..... | 25 |
| The following 3-way Hydrants replaced 2-ways (already set on streets) during 1899 | 24 |
| And on private and other property during 1899 | 3 |
| Total number of Hydrants in use at end of 1899 | 3,058 |

The total number of new Hydrants placed during the year 1899 was, 9 3-way and 16 2-way Hydrants. Total, 25.

A number of the old 2-way Hydrants were replaced during the year with the new improved body 2-way Hydrants,

SCHEDULE No. 13.

STATEMENT OF VALVES PLACED IN POSITION DURING THE YEAR 1899, SHEWING SIZE,
POSITION, ETC.

| Street, Avenue, Etc. | Side of Street. | Location. |
|-----------------------------|--------------------|--|
| 12-IN. STOP VALVES : | | |
| King west..... | South | West line of Simcoe Street. |
| King west..... | " | East " John Street. |
| King | " | West " " |
| " | " | East " Peter Street. |
| " | " | West " " |
| " | " | East " Spadina Avenue. |
| " | " | West " " |
| 6-IN. STOP VALVES : | | |
| Atlantic Av. | West | South line of Liberty Street. |
| Crescent Rd..... | South | East " Yonge Street. |
| Cummings..... | " | East " Bolton Avenue. |
| Gerrard (lane off).. | East | North " Gerrard Street (Pavilion fire main.) |
| Hepburn | North | East " Havelock Street. |
| John | West | North " King Street. |
| King | North | East " John Street. |
| " | " | West " " |
| Peter | East | North " King Street. |
| " | " | South " " |
| Sackville | " | North " Gerrard Street. |
| Simpson Av..... | North | West " Howland Road. |
| St. George..... | West | South " Bernard Avenue. |
| Ulster..... | North | East " Bathurst Street. |
| Wright Av..... | " | East " Roncesvalles Avenue. |
| 4-IN. STOP VALVES : | | |
| Bruce | North | East line of Givens Street. |
| Danforth Av..... | South | East " Jones Avenue. |
| Hickory | West..... | North " St. Patrick Street. |
| 3-IN. STOP VALVES : | | |
| Hickory | West | At north end on B. O. to manhole. |
| Ulster | North | West line of Lippincott Street. |

THE FOLLOWING STOP VALVE HAS BEEN TAKEN OUT DURING THE YEAR 1899.

| Street, Avenue, Etc. | Side of Street. | Location. |
|---------------------------|--------------------|----------------------------|
| 9-IN. STOP VALVE : | | |
| Peter Street | East..... | South line of King Street. |

SUMMARY OF VALVES ON STREETS AT END OF 1899.

| Size and Description. | In use at end of 1898. | Put in during 1899. | Taken out dur- ing 1899. | Total at the end of 1899. |
|-----------------------|---------------------------|------------------------|-----------------------------|------------------------------|
| STOP VALVES : | | | | |
| 36 inches | 4 | ..... | ..... | 4 |
| 30 " | 8 | ..... | ..... | 8 |
| 24 " | 17 | ..... | ..... | 17 |
| 20 " | 2 | ..... | ..... | 2 |
| 12 " | 436 | 7 | ..... | 443 |
| 10 " | 7 | ..... | ..... | 7 |
| 9 " | 7 | ..... | 1 | 6 |
| 8 " | 12 | ..... | ..... | 12 |
| 6 " | 1,692 | 15 | ..... | 1,707 |
| 4 " | 63 | 3 | ..... | 66 |
| 3 " | 29 | 2 | ..... | 31 |
| Totals..... | 2,277 | 27 | 1 | 2,303 |
| CHECK VALVES. | | | | |
| 36 inches | 5 | ..... | ..... | 5 |
| 30 " | 3 | ..... | ..... | 3 |
| 24 " | 2 | ..... | ..... | 2 |
| 20 " | 1 | ..... | ..... | 1 |
| 12 " | 12 | ..... | ..... | 12 |
| 6 " | 45 | ..... | ..... | 45 |
| Totals..... | 68 | ..... | ..... | 68 |

SCHEDULE No. 14.

STATEMENT OF HOUSE SERVICES LAID DURING 1899.

| Name of Street. | Size of Service. | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|
| | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. |
| Avenue Rd. | 1 | 1 | 1 | 1 | 1 | | | |
| Atlantic Av. | | 1 | | | 2 | | | |
| Admiral Rd. | | 4 | 7 | | | | | |
| Afton Av. | 1 | | | | | | | |
| Adelaide, west. | 4 | | | 1 | | | | |
| Arthur | 11 | 2 | | | | | | |
| Anne | 2 | | | | | | | |
| Albany Av. | 1 | | | | | | | |
| Amelia | 1 | | | | | | | |
| Alexander | 1 | | | | | | | |
| Argyle | 4 | | | | | | | |
| Bathurst | 3 | 6 | 1 | 1 | 2 | | | |
| Bay. | | | | 1 | 1 | | | |
| Berkeley | 1 | | | | | | 1 | 2 |
| Bloor, west | 7 | 3 | 4 | 2 | | | | |
| Brunswick Av. | 3 | 4 | | | | | | |
| Bain Av. | 1 | | | | | | | |
| Brock Av. | 2 | | | | | | | |
| Blake | | 1 | | | | | | |
| Brookfield Av. | 3 | | | | | | | |
| Bleeker | 1 | | | | | | | |
| Boulevard Av. | 1 | | | | | | | |
| Buchanan | 2 | | | | | | 1 | |
| Baldwin | | 1 | | | | | | |
| Bedford Rd. | 2 | | 3 | | | | | |
| Breadalbane | 1 | | | | | | | |
| Broadview Av. | 4 | 2 | | | | | | |
| Beatty Av. | | 1 | 2 | | | | | |
| Berryman | 1 | | | | | | | |
| Bernard Av. | | 2 | | | | | | |
| Bowman | 1 | | | | | | | |
| Beau | | | 1 | | | | | |
| Bellwoods Av. | 7 | 2 | | | | | | |
| Bright | 2 | | | | | | | |
| Bismarck Av. | 1 | | | | | | | |
| Centre Av. | 1 | | | | | | | |
| Clarke | 1 | | | | | | | |
| Cummings | 1 | | | | | | | |
| Crescent Rd. | 1 | 5 | 3 | | | | | |
| College. | 3 | 1 | 2 | | 1 | | | |
| Cowan Av. | 3 | 6 | | | | | | |
| Classic Av. | 2 | | | | | | | |
| Crawford | 5 | 3 | | 1 | 1 | | | |
| Church | | 2 | | | 1 | | | |

HOUSE SERVICES LAID DURING 1899—*Continued.*

| Name of Street. | Size of Service. | | | | | | | |
|----------------------|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|
| | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. |
| Front, east..... | | | | | | | 2 | |
| Fuller..... | 3 | | | | | | | |
| Fenning..... | 2 | | | | | | | |
| Fern Av..... | 1 | | | | | | | |
| Foster Pl..... | 1 | | | | | | | |
| First Av..... | 2 | | | | | | | |
| Franklyn Av..... | 1 | | | | | | | |
| Gloucester..... | | | | | 1 | | | |
| Greenwoods Av..... | 2 | | | | | | | |
| Grant..... | 3 | 1 | | | | | | |
| Gladstone Av..... | 3 | | | | | | | |
| Galley Av..... | 1 | | | | | | | |
| Glen Rd..... | | 3 | 2 | 1 | | | | |
| George..... | 1 | | | | | | | |
| Grafton Av..... | 1 | | | | | | | |
| Golden Av..... | 1 | | | | | | | |
| Gerrard, east..... | 3 | | | | | | | |
| Givens..... | 1 | | | | | | | |
| Grosvenor..... | | | | 1 | | | | |
| Grange Rd..... | | | | 1 | | | | |
| Havelock..... | 5 | | | | | | | |
| Howland Av..... | 4 | 1 | | | | | | |
| Harvard Av..... | 5 | 2 | | | | | | |
| Huxley..... | 4 | | | | | | | |
| Hamilton..... | 2 | | | | | | | |
| Howard..... | 2 | | | | | | | |
| Huron..... | 2 | | 2 | | 1 | | | |
| Homewood Av..... | | 1 | | | | | | |
| Hallam..... | 1 | 1 | | | | | | |
| Harbord..... | 1 | 2 | 2 | | | | 1 | |
| Hogarth Av..... | 1 | | 1 | | | | | |
| Jameson Av..... | | 4 | 1 | | | | | |
| Jones Av..... | 1 | | | | | | | |
| Jarvis..... | | 1 | | | | | 1 | |
| King, east..... | 3 | | | | 1 | | 1 | 1 |
| King, west..... | 7 | | 1 | | 1 | | | 1 |
| Kew Beach..... | | 2 | | | | | | |
| Lisgar..... | 1 | | | | | | | |
| Lowther Av..... | | 1 | | 1 | | | | |
| Lindsay Av..... | 1 | | | | | | | |
| Leslie..... | 1 | | | | | | | |
| Lane off Jordan..... | | | | | | | | 1 |
| Lippincott..... | 2 | | | | | | | |
| Lewis..... | 1 | | | | | | | |
| Lansdowne Av..... | 1 | | | | | | | |
| Madison Av..... | 3 | 4 | 4 | | | | | |
| Markham..... | 7 | 2 | | | | | | |

HOUSE SERVICES LAID DURING 1899—*Continued.*

| Name of Street. | Size of Service. | | | | | | | |
|--------------------------|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|
| | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. |
| Markham, north | 1 | | | | | | | |
| Mission Av. | 2 | 1 | | | | | | |
| Millstone Lane | | | | 1 | 1 | | | |
| Manning Av. | 2 | | | | | | | |
| Major | 4 | | | | | | | |
| Maple Av | | 2 | | | | | | |
| Macdonell Av. | 5 | 1 | | | | | | |
| Maynard Av | 2 | | | | | | | |
| Marshall | 2 | | | | | | | |
| Marion | 4 | 5 | | | | | | |
| Melinda | | | | | 1 | | | |
| Munroe | 1 | | | | | | | |
| Murray | | | 1 | | | | | |
| Massey | 1 | | | | | | | |
| Mill | 1 | | | | | | | |
| Melville Av. | 1 | | | | | | | |
| Moutray | 1 | | | | | | | |
| Morse | 1 | | | | | | | |
| Margueretta | 1 | | | | | | | |
| McCauley | 4 | | | | 1 | | | |
| McMillan | | | | 1 | | | | |
| McMurrich | | | | 1 | | | | |
| Nelson | | | | 1 | | | | |
| North Lamport | | | | 1 | | | | |
| Niagara | 1 | | | | | | | |
| Ontario | 5 | | | | | | | |
| Ossington | 5 | | | | | | | |
| Oak | 5 | 2 | | | | | | |
| Oxford | 1 | | | | | | | |
| O'Hara Av | 1 | | | | | | | |
| Palmerston Av. | 4 | | | | | | | |
| Park Rd | 4 | 1 | 1 | | | | | |
| Pears Av. | 7 | | | | | | | |
| Pearson Av. | 1 | | | | | | | |
| Pearl | 1 | | | 1 | | | | |
| Pembroke | 2 | | | | | | | |
| Portland | 3 | | | | 1 | | | |
| Parliament | 10 | | 1 | | | | | |
| Queen, east | 5 | 1 | | 1 | 1 | | 2 | |
| Queen, west | 9 | 4 | | | | | | |
| Regent | 1 | | | | | | | |
| Roxboro' | 3 | | | | | | | |
| Richmond, west | | | 1 | | | | | |
| Robinson | 1 | | | | | | | |
| Roncesvalles Av. | 1 | 1 | | | | | | |
| Robert | 2 | | | | | | | |
| Simcoe | 2 | | | | | | | |

HOUSE SERVICES LAID DURING 1899—*Continued.*

| Name of Street. | Side of Street. | | | | | | | |
|-----------------------|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|
| | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. |
| Sumach | 2 | | | | | | | |
| Shanley Av. | | | 1 | | | | | |
| Scarth Rd. | | | 4 | | | | | |
| St. George | 1 | | 2 | | | | | |
| South Drive | | | 1 | | | | | |
| Shaw | 6 | 1 | 2 | | 1 | | | |
| Spencer Av. | 2 | | | | | | | |
| Sherbourne | | 1 | | 1 | | | | |
| Sorauren Av. | 7 | | | | | | | |
| Sydenham | 1 | | | | | | | |
| Sully | 4 | | | | | | | |
| Sackville | 3 | | | | | | | |
| Seaton | 3 | 1 | | | | | | |
| Spadina Av. | 2 | 1 | 5 | | | | | 1 |
| Saulter | 2 | | | | | | | |
| St. Albans | 2 | | | | | | | |
| Sussex Av. | 1 | | | | | | | |
| Scollard | 1 | | | | 1 | | | |
| St. Helens Av. | | | | | 1 | | | |
| Stewart | 2 | | | | | | | |
| Spruce | 1 | | | | | | | |
| Spencer Av. | 5 | | | | | | | |
| Simpson Av. | 2 | | | | | | | |
| Sear | 1 | | | | | | | |
| St. Patrick | | | 1 | | | | | |
| Tate | 2 | | | | | | | |
| Teraulay | | 1 | 1 | | | | | |
| Tecumseth | 1 | 1 | | | | | | |
| Tyndall Av. | 2 | 1 | | | | | | |
| Toronto | | | | | | | 1 | |
| Triller Av. | 1 | | | | | | | |
| Vine. | 1 | | | | | | | |
| Walmer Rd. | 4 | 1 | 1 | | | | | |
| Walker Av. | | 1 | | | | | | |
| Waverley Rd. | 5 | | | | | | | |
| Wellesley Pl. | | | | 1 | | | | |
| Wellington, west .. | | | 1 | | | | 1 | 1 |
| Woodbine Av. | 2 | | | | | | | |
| Wilson Av. | 2 | | | | | | | |
| Wood | 1 | | | | | | | |
| Woodlawn Av. | | | 1 | | | | | |
| Westmoreland Av. | 1 | | | | | | | |
| Woolfrey Av. | 2 | | | | | | | |
| West Marion | 2 | | | | | | | |
| William | 3 | | | | | | | |
| Wright Av. | | 4 | 1 | | | | | |
| William Av. | 1 | | | | | | | |
| Wallace Av. | 2 | | | | | | | |

HOUSE SERVICES LAID DURING 1899—*Continued.*

| Name of Street. | Size of Service. | | | | | | | |
|-------------------------|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|
| | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. |
| Yonge | 3 | 3 | 1 | 1 | ..... | ..... | ..... | 1 |
| York ..... | ..... | ..... | ..... | 1 | ..... | ..... | 1 | 1 |
| Yarmouth Rd | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Yorkville Av | 1 | ..... | 1 | ..... | ..... | ..... | ..... | ..... |
| Totals | 430 | 123 | 70 | 23 | 26 | 1 | 15 | 11 |
| <i>Island Services.</i> | | | | | | | | |
| Clandeboy Av ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Cherokee Av | 1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| Hanlan's Point ..... | ..... | 1 | ..... | ..... | ..... | ..... | ..... | ..... |
| Hooper Av | 3 | ..... | ..... | ..... | 1 | ..... | ..... | ..... |
| Lakeshore Av | 4 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| McLean's Lane | 5 | ..... | ..... | ..... | ..... | ..... | ..... | ..... |

Total number of Services, 715.

SCHEDULE 15.

STATEMENT OF HOUSE SERVICES IN USE TO 31ST DECEMBER, 1899.

| | | | |
|---|--|--|-------|
| Total number of services in use previous to 1874..... | | | 1,375 |
| “ “ laid during 1874..... | | | 552 |
| Number of new “ “ 1875..... | | | 842 |
| “ renewed “ “ 1875..... | | | 24 |
| “ new “ “ 1876 (by permit)..... | | | 141 |
| “ renewed “ “ 1876..... | | | 12 |
| “ new “ laid by Commission 1876..... | | | 602 |
| “ renewed “ “ 1876..... | | | 258 |
| “ new “ “ 1877..... | | | 1,006 |
| “ renewed “ “ 1877..... | | | 161 |
| “ new “ laid by Corporation 1878..... | | | 2,189 |
| “ renewed “ “ 1878..... | | | 103 |
| “ new “ “ 1879..... | | | 1,861 |
| “ renewed “ “ 1879..... | | | 97 |
| “ new “ “ 1880..... | | | 1,014 |
| “ renewed “ “ 1880..... | | | 41 |
| “ new “ “ 1881..... | | | 2,654 |
| “ renewed “ “ 1881..... | | | 117 |
| “ new “ “ 1882..... | | | 1,826 |
| “ renewed “ “ 1882..... | | | 44 |
| “ new “ “ 1883..... | | | 1,766 |
| “ renewed “ “ 1883..... | | | 54 |
| “ new “ “ 1884..... | | | 2,087 |
| “ renewed “ “ 1884..... | | | 12 |
| “ new “ “ 1885..... | | | 2,344 |
| “ renewed “ “ 1885..... | | | 22 |
| “ new “ “ 1886..... | | | 2,936 |
| “ renewed “ “ 1886..... | | | 19 |
| “ new “ “ 1887..... | | | 3,250 |
| “ renewed “ “ 1887..... | | | 65 |
| “ new “ “ 1888..... | | | 2,990 |
| “ renewed “ “ 1888..... | | | 65 |
| “ new “ “ 1889..... | | | 3,288 |
| “ renewed “ “ 1889..... | | | 68 |
| “ new “ “ 1890..... | | | 2,136 |
| “ renewed “ “ 1890..... | | | 55 |
| “ new “ “ 1891..... | | | 2,058 |
| “ renewed “ “ 1891..... | | | 53 |
| “ new “ “ 1892..... | | | 1,151 |
| “ renewed “ “ 1892..... | | | 49 |
| “ new “ “ 1893..... | | | 526 |
| “ renewed “ “ 1893..... | | | 2 |

SCHEDULE No. 15—*Continued.*

| | |
|---|--------|
| Number of new services laid by Corporation 1894 | 390 |
| " renewed " " 1894 | 11 |
| " new " " 1895 | 319 |
| " renewed " " 1895 | 28 |
| " new " " 1896 | 291 |
| " renewed " " 1896 | 45 |
| " new " " 1897 | 474 |
| " renewed " " 1897 | 29 |
| " new " " 1898 | 504 |
| " renewed " " 1898 | 32 |
| " new " " 1899 | 664 |
| " renewed " " 1899 | 35 |
| New services in Yorkville at time of annexation | 448 |
| " Parkdale " " | 885 |
| | <hr/> |
| | 44,080 |
| Total number services laid on Island | 255 |
| | <hr/> |
| Total | 44,335 |

SCHEDULE No. 17.
METERS TAKEN OFF AND REPLACED DURING 1899.

| Month. | 3-inch. | | 1 1/2-inch. | | 5/8-inch. | | 3/4-inch. | | 1-inch. | | 1 1/2-inch. | | 2-inch. | | 3-inch. | | 4-inch. | | 5-inch. | | 6-inch. | | Total. |
|-------------|---------|-----|-------------|-----|-----------|-----|-----------|-----|---------|-----|-------------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | Off. | On. | |
| January... | ... | ... | ... | ... | 12 | 9 | 4 | 2 | 1 | 1 | ... | ... | ... | ... | 2 | 1 | ... | ... | ... | ... | ... | ... | 33 |
| February... | ... | ... | ... | ... | 31 | 29 | 15 | 15 | 12 | 7 | ... | ... | 3 | ... | ... | ... | 1 | ... | ... | ... | ... | 1 | 118 |
| March... | ... | ... | ... | ... | 12 | 12 | 3 | 7 | 2 | 1 | ... | ... | 1 | 2 | 1 | 1 | ... | ... | ... | ... | ... | ... | 46 |
| April... | ... | ... | ... | ... | 23 | 21 | 4 | 5 | 7 | 7 | ... | ... | 11 | 1 | 1 | 1 | ... | ... | ... | ... | ... | ... | 82 |
| May... | ... | ... | ... | ... | 10 | 9 | 4 | 4 | 2 | 2 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 32 |
| June... | ... | ... | ... | ... | 10 | 10 | 5 | 4 | 1 | 1 | ... | ... | 2 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | 36 |
| July... | ... | ... | ... | ... | 11 | 10 | 13 | 7 | 1 | ... | ... | ... | 1 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | 47 |
| August... | ... | ... | ... | ... | 5 | 3 | 3 | 4 | 2 | 2 | ... | ... | 4 | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | 25 |
| September. | ... | ... | ... | ... | 18 | 14 | 2 | 6 | 1 | 1 | ... | ... | 2 | 1 | ... | ... | ... | ... | ... | ... | 1 | ... | 46 |
| October... | ... | ... | ... | ... | 22 | 15 | 7 | 6 | 2 | ... | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | ... | ... | ... | 1 | 63 |
| November. | ... | ... | ... | ... | 14 | 13 | 11 | 8 | 4 | 2 | ... | ... | 1 | 1 | ... | ... | 1 | 1 | ... | ... | ... | ... | 56 |
| December. | ... | ... | ... | ... | 13 | 13 | 12 | 8 | 2 | 2 | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | 52 |
| Totals... | ... | ... | ... | ... | 4 | 4 | 181 | 158 | 37 | 26 | 1 | 1 | 26 | 10 | 11 | 5 | 5 | 5 | ... | ... | 1 | 2 | 636 |

SCHEDULE No. 18.

METERS REPAIRED WITHOUT REMOVAL FROM SERVICES DURING 1899.

| Month. | $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | $1\frac{1}{2}$ -inch. | 2-inch. | 3-inch. | 4-inch. | 6-inch. | 8-inch. | 10-inch. | Totals. | New Boxes. | New Frames. | Frames and boxes repaired. |
|-------------|----------------------|----------------------|----------------------|---------|-----------------------|---------|---------|---------|---------|---------|----------|---------|------------|-------------|----------------------------|
| January... | 1 | 10 | 5 | 15 | .... | 9 | 9 | 3 | 4 | .... | .... | 56 | 9 | 2 | .... |
| February.. | .. | 4 | 7 | 5 | 2 | 7 | 7 | 3 | 1 | .... | .... | 36 | 1 | 1 | 1 |
| March | 1 | 6 | 8 | 9 | .. | 12 | 5 | 4 | 6 | .... | .... | 51 | 3 | 4 | .... |
| April | 1 | 3 | 8 | 13 | 2 | 8 | 7 | 3 | 3 | .... | .... | 48 | 3 | .... | 4 |
| May | .. | 10 | 5 | 12 | 2 | 4 | 1 | 1 | .... | .... | .... | 35 | 5 | 2 | 8 |
| June | 3 | 9 | 9 | 10 | .... | 5 | 4 | 2 | 2 | .... | .... | 44 | 7 | .... | 11 |
| July | 1 | 7 | 9 | 7 | 1 | 4 | 1 | 1 | 3 | .... | .... | 34 | 5 | 2 | 1 |
| August.... | .. | 5 | 4 | 9 | .... | 4 | 3 | .... | 2 | .... | .... | 27 | 4 | .... | 3 |
| September. | .. | 4 | 7 | 11 | 1 | 9 | 3 | 1 | 2 | .... | .... | 38 | 10 | 1 | 4 |
| October.... | .. | 9 | 18 | 15 | 2 | 7 | 3 | .... | 1 | .... | .... | 55 | 10 | 1 | 4 |
| November. | 2 | 7 | 4 | 9 | 1 | 7 | 8 | 2 | 5 | .... | .... | 45 | 8 | 1 | 4 |
| December.. | 1 | 7 | 11 | 10 | .... | 5 | 8 | 3 | .... | 1 | .... | 46 | 6 | 1 | 2 |
| Totals. | 10 | 81 | 95 | 125 | 11 | 81 | 59 | 23 | 29 | 1 | .... | 515 | 71 | 15 | 42 |

SCHEDULE No. 19.

SIZE AND NUMBER OF NEW METERS PLACED DURING 1899.

| $\frac{1}{2}$ -inch. | $\frac{5}{8}$ -inch. | $\frac{3}{4}$ -inch. | 1-inch. | 2-inch. | 3-inch. | 4-inch. | 5-inch. | 6-inch. | Total. |
|----------------------|----------------------|----------------------|---------|---------|---------|---------|---------|---------|--------|
| 14 | 5 | 15 | 8 | 12 | 3 | 3 | .. | .. | 60 |

SCHEDULE No. 20.
RETURN OF TEMPERATURES OF WATER FOR YEAR 1899, TAKEN AT THE SHORE
CRIB AND CITY HALL TAP.

| Month. | Degrees Fahrenheit. | | | | | |
|------------------------|---------------------|---------|----------|----------------|---------|----------|
| | Shore Crib. | | | City Hall Tap. | | |
| | Highest. | Lowest. | Average. | Highest. | Lowest. | Average. |
| | Deg. | Deg. | Deg. | Deg. | Deg. | Deg. |
| January | 38 | 33 | 36.5 | 39 | 34 | 37. |
| February | 38 | 34 | 35.7 | 38 | 34 | 36. |
| March | 36 | 34 | 34.6 | 36 | 34 | 35. |
| April | 42 | 34 | 37.6 | 42 | 34 | 38. |
| May | 44 | 39 | 41. | 45 | 41 | 42.7 |
| June | 51 | 40 | 42. | 50 | 42 | 44.9 |
| July | 56 | 41 | 44.7 | 55 | 44 | 48.8 |
| August | 66 | 41 | 53.5 | 66 | 44 | 55.7 |
| September | 70 | 41 | 52.7 | 69 | 46 | 53.3 |
| October | 54 | 41 | 50. | 55 | 44 | 52. |
| November | 52 | 41 | 47. | 53 | 44 | 48.6 |
| December | 46 | 38 | 40.4 | 50 | 40 | 43. |
| Averages of the year.. | 49.4 | 38. | 42.9 | 49.8 | 40. | 44.5 |

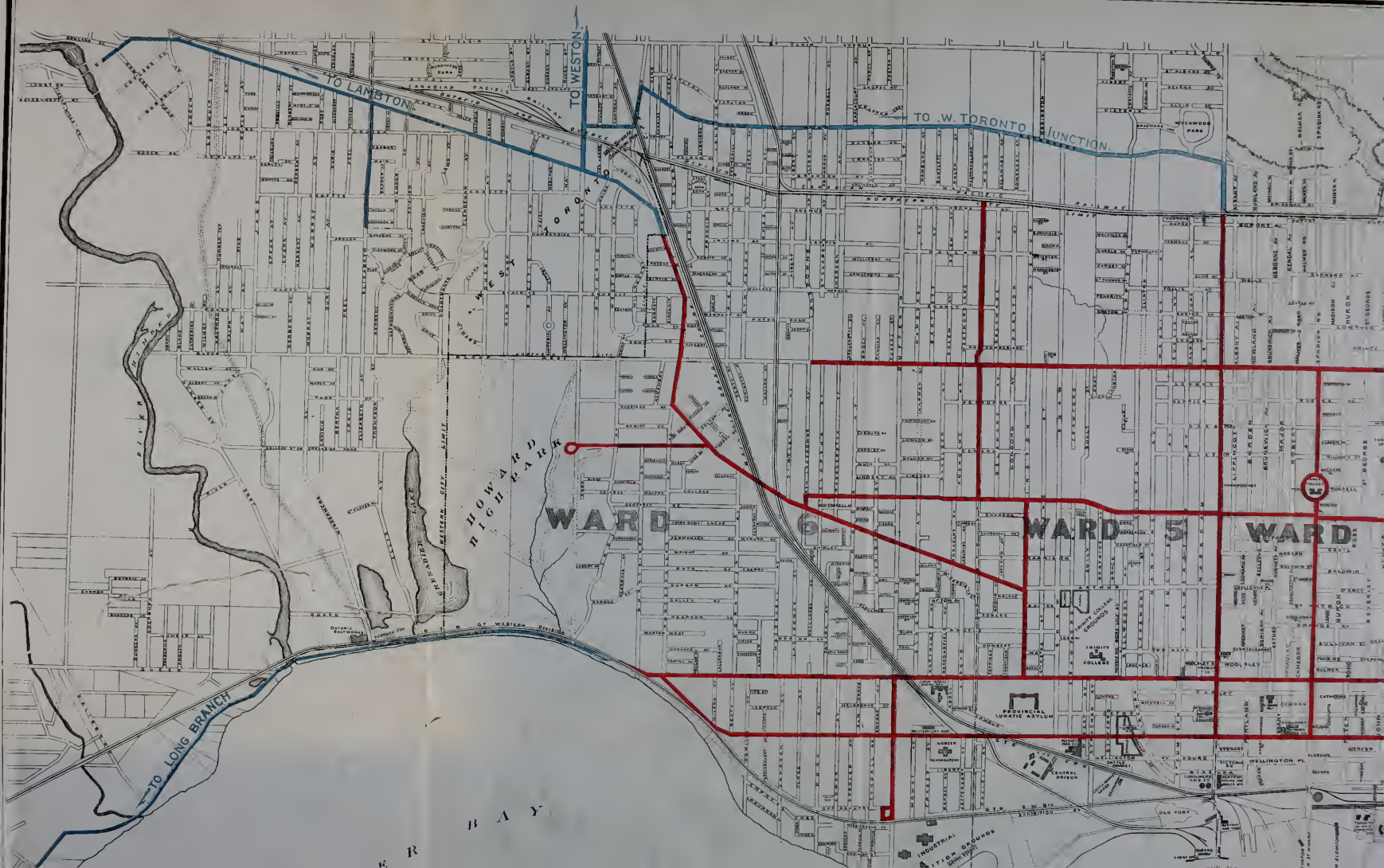
ANALYSIS OF TEMPERATURES.

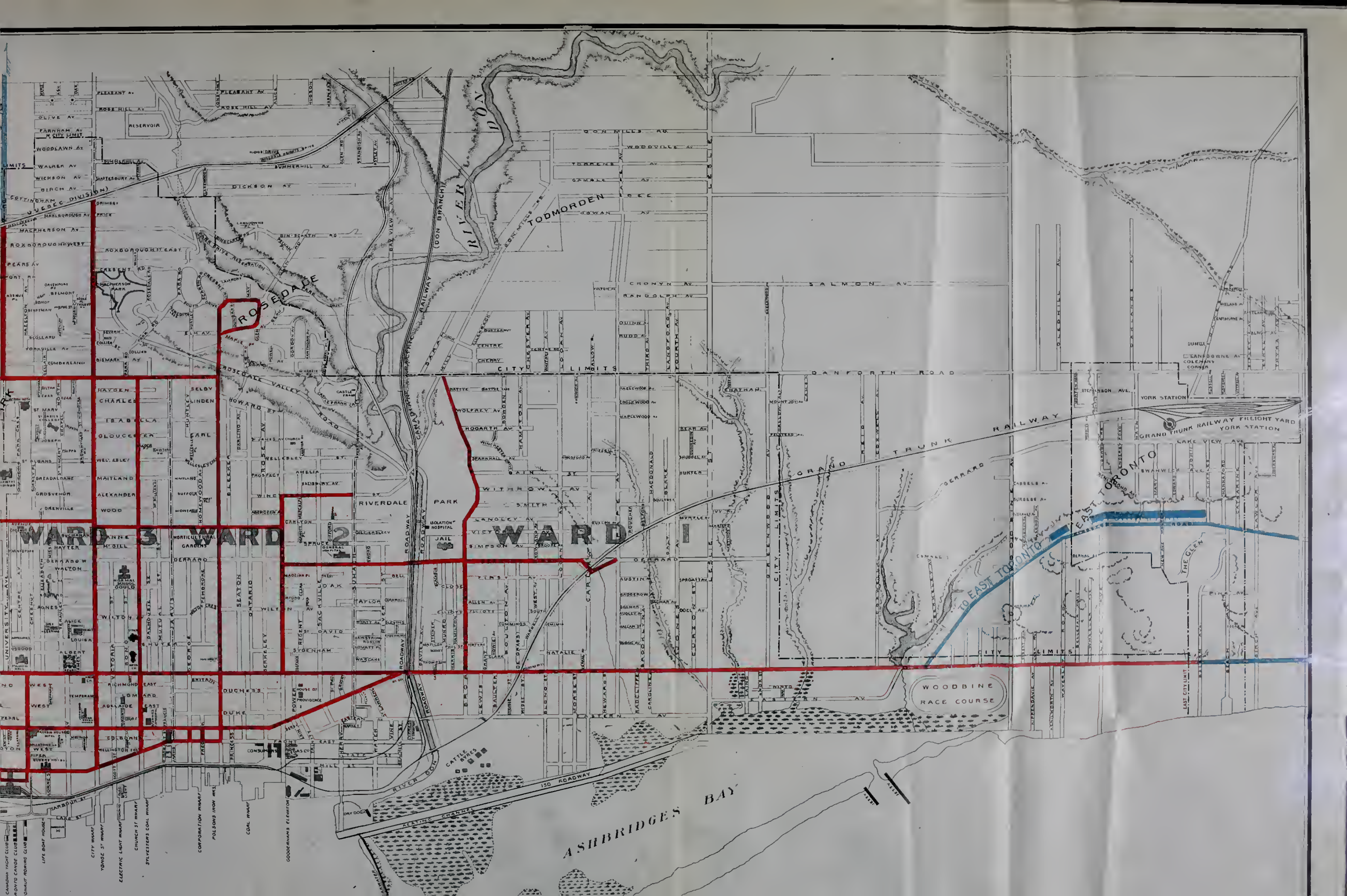
Shore Crib.

The highest, Sept. 2nd, 70 deg. The lowest, Jan. 12th, 33 deg.
The highest average in Aug., 53.5. The lowest average in March, 34.3.

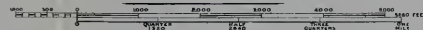
City Hall Tap.

The highest, Sept. 2nd, 69 deg. The lowest, first 4 months, 34 deg.
The highest average in Aug., 55.7. The lowest average in March, 35.





PLAN OF THE CITY OF TORONTO



NOTE: THE RED LINES DENOTE TORONTO STREET RAILWAY.
BLUE SUBURBAN



CITY ENGINEER'S OFFICE.
TORONTO, 1899.

C. H. Rust
CITY ENGINEER

APPENDIX "C."

TORONTO STREET RAILWAY AGREEMENT.

AGREEMENT

BETWEEN

The Corporation of the City of Toronto

AND

George W. Kiely, Wm. McKenzie, Henry A. Everett and
C. C. Woodworth,

FOR TRANSFER OF TORONTO STREET RAILWAY.

[Approved as to form, 1st September, 1891.]

C. W. R. BIGGAR,

City Solicitor.]

THIS INDENTURE made in triplicate the first day of September, one thousand eight hundred and ninety-one.

Between the Corporation of the City of Toronto, hereinafter called "the Corporation," of the first part, and

George Washington Kiely, of the City of Toronto, Esquire; William McKenzie, of the City of Toronto, contractor; Henry Azariah Everett, of the City of Cleveland, in the State of Ohio, Secretary of the East Cleveland Railway Company (Electric), and Chauncey Clark Woodworth, of the City of Rochester, in the State of New York, Esquire, hereinafter called "the Purchasers," of the second part.

1. Whereas by virtue of an Act of the Legislature of the Province of Ontario, being 52 Victoria, chapter 73, intituled "An Act respecting the City of Toronto," the Corporation of the City of Toronto was empowered, after having acquired the ownership of the railways of the Toronto Street Railway Company and all the real and personal property in connection with the working thereof, to sell, lease or otherwise dispose of the same to any one or more persons, firms or corporations on such terms and for such periods as might be agreed upon between the City and the said persons, firms or corporations.

2. And whereas under and by virtue of another Act of the said Legislature, being 53 Victoria, chapter 105, the said Corporation was empowered to proceed to arbitration, under the 18th Resolution of the Agreement therein referred to, in order to determine the value to be paid by the said Corporation to the Toronto Street Railway Company for the said railways and the said real and personal property.

3. And whereas the Corporation proceeded with the said arbitration, and an Award was duly made therein on the 13th day of April, A.D. 1891, whereby the said value was determined to be the sum of \$1,453,788, inclusive of certain outstanding debentures charged upon the said undertaking to the amount of \$600,000.

4. And whereas the Corporation paid into the High Court of Justice, Chancery Division, the amount of the said award, and acquired the said railways and property, and is now in possession and full enjoyment thereof.

5. And whereas the said Corporation resolved to sell the said railways and all the property so acquired by the City from the Toronto Street Railway Company, and also to dispose of the right to operate surface street railways in the City of

Toronto, as hereinafter mentioned, as more fully appears from the said Award and from the Conditions, Tender and By-law which are annexed to this agreement, and made part and parcel thereof.

6. And whereas the Corporation advertised for tenders for the purchase of the said railways, property and privilege, and the Purchasers (Kiely, McKenzie and Everett) tendered therefor, and their said tender was duly accepted by the said Corporation.

7. And whereas a By-law authorizing the execution of an agreement between the Corporation and said Purchasers, was duly passed by the said Corporation on the 27th of July, A. D., 1891, in pursuance whereof this agreement has been duly prepared and approved

8. And whereas the said Purchasers have associated with them the said Chauncey C. Woodworth as a partner in the said undertaking.

9. And whereas the value of the horses, cars, harness stock and other moveable property and effects referred to in the fifth paragraph of the said conditions, and payable in cash, has been settled for the purpose of this agreement at the sum of \$475,000, and it has been agreed by and between the said parties that a first lien or charge shall be created by these presents upon all the property which is the subject of this agreement, and shall be held by the corporation thereon for the balance (namely, for the sum of \$378,788 and interest) of the amount of the said Award, subject only to the charge created by the said debentures to the extent of \$600,000 with interest.

10. NOW THIS INDENTURE WITNESSETH that the said Corporation, in consideration of the said sum of \$475,000, now paid by the Purchasers to the Corporation (the receipt whereof is hereby acknowledged), and of the premises, both by these presents, in pursuance of all the powers in that behalf enabling it so to do, sell, grant and assign to the Purchasers, their heirs, executors, administrators and assigns, all the said railways and property acquired by the Corporation from the Toronto Street Railway Company as aforesaid, under and in pursuance of the said Arbitration and Award, and also all the extensions, additions and renewals to the said railways and property, real and personal, made by the Corporation during its ownership of the railway, subject to the said outstanding debentures and to the said charge above referred to, and to all the conditions herein mentioned, *to have and to hold* to the Purchasers, their heirs, executors, administrators and assigns, to their sole and only use, subject as aforesaid.

11. And this Indenture further witnesseth that the Corporation for the consideration aforesaid, doth by these presents in pursuance of all the powers in that behalf enabling it so to do, grant unto the said Purchasers, their heirs, executors, administrators and assigns for a period of twenty years from the date of these presents (which period shall be renewed for a further term of ten years and no longer, in the event of legislation being obtained to enable this to be done, the said Corporation hereby undertaking at once, on request being made by the said purchasers, to aid in procuring the needed legislation to authorize such renewal for such further period of ten years) the exclusive right for the said period of twenty years and the said extended period of ten years, in the event of the said needed legislation being obtained, and no longer, upon the aforesaid conditions to operate surface street railways in the City of Toronto, excepting on the Island and on that portion (if any) of Yonge Street from Ontario and Quebec Railway tracks to the north City limits, over which the Metropolitan Street Railway Company claims an exclusive right to operate such railways, and the portion (if any) of Queen Street (Lake Shore Road) over which any exclusive right to operate surface street railways may have been granted by the Corporation of the County of York, and also the exclusive right for the same term to operate surface street railways over the said portions of Yonge Street and Queen Street West (Lake Shore Road) above indicated so far as the said Corporation can legally grant the same: but this clause and nothing contained in this agreement shall give or be construed

to mean or give to the Purchasers the power to engage in any other business than that of operating surface street railways, as herein permitted.

12. It is mutually understood, declared and agreed by and between the Corporation and its successors, and the purchasers, their heirs, executors, administrators and assigns, that the said Award, Conditions, Tender and By-law so attached hereto as aforesaid are incorporated with these presents and made part and parcel thereof, and the said parties mutually and respectively covenant, promise and agree with each other to carry into effect, observe, perform and fulfil all the provisions and stipulations therein contained and to be carried into effect, observed, performed and fulfilled by the said parties and their aforesaid respectively.

13. And the said Purchasers for themselves and each of them for himself and for their and each of their heirs, executors, administrators and assigns, covenant, promise and agree with the corporation, their successors and assigns, as follows: That they will fulfil all the conditions, stipulations and undertakings in this agreement contained, it being understood that the reference to particular matters to be performed by the Purchasers shall not diminish or limit the obligations of this agreement.

14. The said Purchasers and their aforesaid covenant as aforesaid with the said Corporation that they will pay to the said Corporation the said sum of \$378,788, being the balance of the said award, in four equal quarterly payments on the first days of December, March, June and September next, or the first juridical day thereafter respectively, with interest at the rate of 5 per cent. per annum from the date of this agreement on the amount thereof then remaining unpaid.

15. And that they will yearly and every year during the term covered by this agreement pay to the Corporation, through its City Treasurer, the sum of \$800 per annum per mile of single track, or \$1,600 per mile of double track, occupied by the rails of the said railway, within the said limits (not including turnouts, the length of which are to be approved of by the City Engineer), in four equal quarterly instalments, on the first days of January, April, July and October in each year, or on the first juridical day thereafter, respectively, the first instalment to be the proportionate part of the quarterly instalment accruing from the date of these presents to the first day of October next.

16. And that they will monthly and every month during the term covered by this agreement on the first Monday of each month pay to the Corporation through its City Treasurer, the percentages in the said Conditions and Tender referred to, being the following percentages of the gross receipts from passenger fares, freight, express and mail rates, and all other sources of revenue derived from the traffic obtained by the operation of the said railways, namely:

| | |
|--|-------------|
| On all gross receipts up to \$1,000,000 per annum, | 8 per cent. |
| Between \$1,000,000 and 1,500,000 | 10 " |
| " 1,500,000 " 2,000,000 | 12 " |
| " 2,000,000 " 3,000,000 | 15 " |
| All on all gross receipts over 3,000,000 | 20 " |

17. And it is further understood, declared and agreed between the parties to these presents that should the Corporation within a reasonable time eliminate from Clause 31 of the said Conditions the provision requiring a class of tickets to be sold at the rate of eight tickets for twenty-five cents for use during certain specified hours of the day, then and in that event the said Purchasers, for themselves, their executors, administrators and assigns covenant, promise and agree with the Corporation and their successors that they will in accordance with their said tender in that behalf, pay to the Corporation and its successors during the unexpired period of the said term covered by this agreement two (2) per cent. of the said gross receipts in addition to the percentages hereinbefore mentioned, such additional percentage to be payable monthly as aforesaid.

18. The Purchasers in addition to the other considerations payable to the Corporation for the said Railways and property, shall pay to the Corporation the following items, viz :

(1) The actual cost to the Corporation of the extensions and additions to the tracks made by the Corporation since the acquisition thereof.

(2) The actual cost to the Corporation of additions to plant and materials for the use of said railway handed over to the Purchasers.

(3) The Actual cost to the Corporation of the new horses purchased since the railway has been acquired.

(4) One-half of the actual cost to the Corporation of the painting, renovating and other repairing done to the cars, plant and appliances of the railway since the acquisition thereof from the said Street Railway Company.

19. The Purchasers covenant that they will well and truly pay to the holders of said hereinbefore mentioned debentures as they mature the said sum of \$600,000 thereby secured and interest thereon from the date of these presents, and will indemnify and save harmless the Corporation from all claims and demands in respect thereof.

20. That they will build and equip, or cause to be built and equipped, a car factory within the limits of the City of Toronto for the manufacture and repair of all the cars and railway plant used on the said railways, and will there continuously carry on, or cause to be carried on, such business and the manufacture and repair of all the said cars and railway plant during the term covered by this agreement, and that the performance of this clause may be specifically enforced by the order and injunction of the High Court of Justice.

21. And it is hereby agreed that all the said railway property liable to be assessed for school purposes shall be assessed for Public School purposes, and that the rates levied in respect thereof shall be payable to the Public School funds of the City of Toronto.

22. And it is further understood, declared and agreed between the said parties to these presents that the delivery over and acceptance of the said property shall not interfere with the rights of the parties under Clause 3 of the said Conditions, but that notwithstanding this Act, the Judge of the County Court of the County of York shall settle any difference that may arise between the parties in respect thereof, and the sum so settled by him shall be forthwith paid by the party liable to the party to whom the same is found due.

23. And it is further understood, declared and agreed by and between the said Corporation and the said Purchasers, that if the said Purchasers form a Joint Stock Company for the purpose of carrying this agreement into effect, then upon payment of the said sum of \$378,788 and interest as aforesaid, the said Company shall, upon executing the necessary contract of substitution, be substituted for the said Purchasers, and the said Clause 23 of the said Conditions shall apply to such Company so to be formed as aforesaid, and shall cease to apply to the individual Purchasers, who shall thenceforward be discharged from all individual liability in the premises.

24. And it is further declared, covenanted and agreed by and between the parties of these presents that all the property the subject of this agreement is hereby charged with payment of all the moneys to be paid under this agreement as the purchase money of the said property.

25. And it is further covenanted and agreed by and between the parties to these presents, that the payment of the said gross percentages monthly, and mileage quarterly, and the fulfilment of the obligations of the said Conditions shall be a lien and charge on the said railways and the property used in the working thereof, both before and after the incorporation of the said Company, intended to be substituted as aforesaid in the place of the said Purchasers ; but this provision shall not interfere with the rights of such Purchasers or of the said Company, after the payment of the purchase moneys as aforesaid, to sell and dispose of any prop-

erty which is not required for the operation of the said railways. All the property, however, which replaces that which may be sold or disposed of is to be charged under this clause as the original property is now hereby charged, and all after acquired property is to be in the same manner charged for the fulfilment of the said obligation.

26. And it is further understood, covenanted and agreed by and between the parties to these presents that a sufficient supply of each of the classes of tickets mentioned in the said Conditions shall at all times be kept for sale and sold to all persons desirous of purchasing the same on all cars while running through the streets of the City, and also at the public offices of the Purchasers.

27. And it is further understood, declared and agreed by and between the said parties that in fixing the allowance to be made for horses which have been sold by the Corporation, and therefore not forthcoming under the provision in Clause 3 of the said Conditions, the Corporation shall only be liable to account for and pay the price realized on such sales.

28. And it is further understood, declared and agreed by and between the said parties that the system of accounts and bookkeeping to be adopted by the Purchasers shall be subject to the approval of the City Treasurer and the Auditors appointed by the City.

29. And it is further covenanted and agreed between the parties to these presents that all conveyances, assurances and instruments necessary to carry out fully these presents shall, from time to time, be executed by the parties hereto, the same to be settled by James S. Cartwright, Q.C., Registrar of the Queen's Bench Division of the High Court of Justice, in case the parties differ about the same.

30. All outstanding car fare tickets issued by the Corporation or by the Toronto Street Railway Company prior to the date hereof shall be accepted as fares by the Purchasers when presented by passengers on the conveyances of the said railway subsequent to the date hereof, and the Corporation agrees that upon such tickets being returned to it from time to time, it will pay to the Purchasers the same prices therefor for which such tickets were issued by the Corporation and the said Toronto Street Railway Company respectively.

In witness whereof the said Corporation has hereto affixed its Corporate Seal under the hand of Edward Frederick Clarke, Esquire, Mayor of the said City, and Richard Theodore Coady, Esquire, City Treasurer and Keeper of the said Seal, and the said Purchasers have set their respective hands and seal.

| | | | |
|--|---|--------------------------------|------------------|
| Signed, sealed and delivered in the presence of | { | E. F. CLARKE, | ..... |
| | | Mayor. | : CITY : |
| | | R. T. COADY, | : SEAL. : |
| | | Treasurer. | ..... |
| | | G. W. KIELY. | |
| THOMAS CASWELL. GEORGE KAPELLE. | { | WM. MCKENZIE, by his Attorney, | Nicol Kingsmill. |
| | | H. A. EVERETT. | |
| | | C. C. WOODWORTH. | |
| | | [L.S.] | |

THE AWARD, CONDITIONS, TENDER AND BY-LAW.

REFERRED TO IN THE AGREEMENT HERETO ATTACHED, DATED THE FIRST DAY OF
SEPTEMBER, A.D. 1891, BETWEEN THE CORPORATION OF THE CITY OF
TORONTO AND GEORGE WASHINGTON KIELY, WILLIAM
MCKENZIE, HENRY AZARIAH EVERETT AND
CHAUNCEY CLARK WOODWORTH.

CONDITIONS OF SALE OF THE STREET RAILWAY FRANCHISE OF
THE CITY OF TORONTO, AS ADOPTED BY THE
CITY COUNCIL, MAY 5TH, 1891.

1. The privilege to be disposed of is the exclusive right (subject as hereinafter provided) to operate surface street railways in the City of Toronto—excepting on "the Island" and on that portion (if any) of Yonge Street, from the Ontario and Quebec railway tracks to the north City limits, over which the Metropolitan Street Railway Company claims an exclusive right to operate such railways, and the portion (if any) of Queen Street West (Lake Shore Road) over which any exclusive right to operate surface street railways may have been granted by the Corporation of the County of York—for a period of twenty years, which shall be renewed for a further period of ten years in the event of legislation being obtained to enable this to be done; and the City will assist in endeavoring to secure such legislation.

(a) Over those portions of Yonge Street and Queen Street West (Lake Shore Road) above indicated, the purchaser shall have an exclusive right to operate surface street railways, so far as the City can legally grant the same.

2. The party whose tender is accepted (and who is herein called "the purchaser") must take over all the property to be acquired by the City from the Toronto Street Railway Company, as it stands on the date of the acceptance of the tender, including the rails, points and substructures of all tracks now laid, real estate, buildings, shops, rolling stock, horses machinery, stock and all other articles covered by the award of the Board of Arbitrators, at the amount of said award.

3. Particulars of the said property are set forth in the Schedule attached to the award of the said Board of Arbitrators; but the City will only undertake as to the tracks actually constructed and the real estate, buildings and shops that all the articles mentioned in said Schedule will be forthcoming.

(a) The City will convey and deliver to the purchaser and the purchaser shall take over and pay for all the property and effects (whether mentioned in said Schedule or otherwise) which the City acquires from the Toronto Street Railway Company under the said award, and if anything mentioned in said Schedule is not forthcoming, or if anything is acquired by the City, as aforesaid, which is not specified in said Schedule, the purchase money to be paid as herein provided shall be subject to such increase or abatement as may be agreed upon between the City and the purchaser, or (in case they fail to agree within ten days after acceptance of tender) as shall be fixed by the Judge or the County Court of the County of York, who is hereby appointed sole arbitrator for that purpose, with all the powers of arbitrators appointed under the sections of the Municipal Act relating to the appointment of arbitrators.

4. The purchaser must accept the title to the above properties which the City acquires or will acquire by virtue of the award of the arbitrators, and must search the same at his own expense, and the City is not to be bound to produce or show any documents or evidences of title except such as are in its possession or power.

5. The sum tendered for the above properties, except horses, cars, harness, stock, and other movable properties and effects (which are to be paid for in cash

at the time the contract is entered into) may either be paid in cash or secured to the satisfaction of the City Treasurer, and paid in four equal quarterly payments, counting from the date of contract and bearing interest at the rate of five per cent. per annum from May 16th 1891, till paid.

N. B.—There is outstanding \$600,000 debentures issued under the authority of the Act 47 Viet. (Ont.) cap. 77, bearing interest at six per cent. per annum, payable half-yearly, and forming a charge upon the undertaking as in said Act is provided. These debentures do not mature until 1914. The purchaser takes the property subject to this charge, and also to certain existing mortgages amounting to about \$40,000, and assumes payment of these with the interest accruing thereon from the date of purchase.

6. The purchaser shall not charge the undertaking with bonds or debentures for a longer period than the term of this contract, and must satisfy the City Treasurer that means are provided for meeting such obligations at maturity.

7. At the termination of this contract the City may (in the event of the Council so determining) take over all the real or personal property necessary to be used in connection with the working of the said railways, at a value to be determined by one or more arbitrators (not exceeding three) to be appointed as provided in the Municipal Act and the Acts respecting Arbitrations and References, and to have all the powers of arbitrators appointed under said Acts, and each party shall bear one-half of the cost of the necessary arbitration at conclusion of term of lease, but the City shall only pay for the land conveyed by them to the purchaser, what it is worth, without reference to its value for the purpose of operating a street railway or railways.

8. The City will construct, reconstruct and maintain in repair the street railway portion of the roadways, viz., for double track, 16 ft. 6 in., and for single track, 8 ft. 3 in., on all streets traversed by the railway system, but not the tracks and substructure required for the said railways.

9. The purchaser shall pay to the City Treasurer the sum of eight hundred dollars per annum per mile of single track (not including turn-outs), such sum or sums to be paid in four quarterly instalments as follows: January 1st, April 1st, July 1st and October 1st of each year, or on the first juridical day after each of the said days respectively, and shall also pay the City Treasurer monthly on the first Monday in each month per cent. of the gross receipts from passenger fares, freight, express and mail rates and all other sources of revenue derived from traffic obtained by operation of said street railway system. All books, accounts and vouchers kept by the purchaser shall be subject to monthly audit by auditors, to be appointed by the City Council, and all reasonable facilities for such audit shall be afforded by the purchaser.

TRACKS, ETC., AND ROADWAYS.

10. The purchaser shall maintain the ties, stringers, rails, turn-outs, curves, etc., in a state of thorough efficiency and to the satisfaction of the City Engineer, and shall remove, renew or replace the same, as circumstances may require, and as the City Engineer may direct. When a street upon which tracks are now laid is to be paved in a permanent manner, on concrete or other like foundation, then the purchaser shall remove present tracks and substructures and replace the same, according to the best modern practice, by improved rails, points and substructures of such description as may be determined upon by the City Engineer as most suitable for the purpose, and for the comfortable and safe use of the highway by those using vehicles thereon; and all changes in the present rails, tracks and road-bed, construction of new lines or additions to present ones, shall be done under the supervision of the City Engineer and to his satisfaction.

(a) In the event of the purchaser desiring to make any repairs or alterations to the ties, stringers, rails, turn-outs, curves, etc., on paved streets, the purchaser will re-pave the portion of the roadway so torn up at his own expense.

11. When the purchaser desires or is required to change any existing tracks and substructures for the purpose of operating by electric or other motive power approved by the City Engineer and confirmed by the City Council, the City will lay down a permanent pavement in conjunction therewith upon the track allowance (as herein defined) to be occupied by such new tracks and substructures. This shall first apply only to existing main lines, and thereafter to branch lines or extensions of main lines and branches, as and when the City Engineer may from time to time recommend and the City Council may direct and require; but such tracks as are now laid on a permanently formed roadway must, when so required as aforesaid, be changed by the purchaser as hereinbefore provided, without any change of roadbed being made or any expense occasioned to the City thereby.

12. The gauge of the system (4 ft. 11 in.) is to be maintained on main lines and extensions thereof, and branch lines and extensions thereof; and the location of the railway on any street shall not be made by the purchaser or confirmed by the City Council until plans thereof, showing the proposed position of the rails, the styles of rail to be used, and the other works in each such street, have been submitted to, and approved in writing by, the City Engineer.

13. The tracks shall conform to the grades of the streets upon which they are respectively laid, and the purchaser shall not in any way change or alter the same without the written permission of the City Engineer.

14. The purchaser will be required to establish and lay down new lines, and to extend the tracks and street car service on such streets as may be, from time to time, recommended by the City Engineer and approved by the City Council, within such period as may be fixed by By-law to be passed by a vote of two-thirds of all the members of said Council; and all such extensions and new lines shall be regulated by the same terms and conditions as relate to the existing system, and the right to operate the same shall terminate at the expiration of the term of this contract.

15. No new lines or extensions of existing lines shall be opened for traffic until the purchaser has obtained a certificate in writing from the City Engineer that the same have been constructed to his satisfaction.

16. The purchaser shall not extend any lines of the said railways beyond the limits of the City, or acquire, own, control or operate a line or lines connecting or in conjunction with or adjoining a City line or lines forming practically prolongation thereof, without first having had the plans of the same [as to position, elevation and gradients on the highway or crossings or highways, or until an agreement has been entered into whereby such suburban line or lines will be altered (at purchaser's expense) to conform to the grades established by the City when the streets or routes become City property or within its limits], approved, in writing, by the City Engineer and confirmed by the City Council.

17. In case the purchaser fails to establish and lay down any new line, as aforesaid, and to open the same for traffic, or to extend the tracks and services on any street or streets within such period as may be fixed by By-laws of the City Council, to be passed as herein provided, the privilege of laying down such new lines or extensions on the street or portion of street so abandoned by the purchaser, may be granted by the said Council to any other person or company, and the purchaser shall in such case have no claim against the City for compensation.

18. The City shall have the right to take up and replace the streets traversed by the railway lines for the purpose of altering the grades thereof, constructing or repairing pavements, sewers, drains or conduits, or for laying down or repairing water or gas pipes, or for all other purposes within the powers of the Corporation, without being liable for any compensation or damage that may be occasioned to the working of the railway on the works connected therewith.

19. The privilege hereby granted is also subject to any existing rights (statutory or otherwise) or any other corporation which now has power to open or take up the streets of the City, such rights to be exercised with the permission and under the direction of the City Engineer.

20. The purchaser shall, within one year from the 16th day of May, 1891, discontinue the use of the buildings as stables on Scollard Street, and also the buildings on Yorkville Avenue.

21. The track allowances (as herein specified), whether for a single or double line, shall be kept free from snow and ice at the expense of the purchaser, so that the cars may be used continuously; but the purchaser shall not sprinkle salt or other material on said track allowances for the purpose of melting snow or ice thereon without the written permission of the City Engineer, and such permission shall in no case be given on lines where horse power is used.

22. If the fall of snow is less than six inches at any one time, the purchaser must remove the same from the tracks and spaces hereinafter defined, and shall, if the City Engineer so directs, evenly spread the snow on the adjoining portions of the roadway; but should the quantity of snow or ice, etc., at any time exceed six inches in depth, the whole space occupied as track allowances (viz., for double tracks, sixteen feet six inches, and for single tracks, eight feet three inches), shall, if the City Engineer so directs, be at once cleared of snow and ice, and the said material removed and deposited at such point or points on or off the street as may be ordered by the City Engineer.

23. If the purchaser becomes bankrupt or insolvent, or makes any assignment for the benefit of creditors, or becomes subject to the operation of any Winding-up Act, or allows an execution against his goods or lands to remain in the hands of the Sheriff of Toronto unsatisfied for more than ninety days, then and in any such case all the rails, stringers, ties, turn-outs, points, sidings, etc., shall become the property of the City without compensation to the purchaser.

24. Electric or other new system of motor, or a combined system, approved by the City Engineer, and confirmed by the City Council as suitable, shall be introduced within one year, and used upon such portions of the following streets, as may be required by the City Engineer and approved of by the Council within three years of the date of contract, viz: Queen Street from the eastern City limit to High Park (or as near thereto as the City may then have power to grant a right to operate a line on said street); King Street, from its intersection at Queen Street and River Don to intersection with Queen Street at Roncesvalles Avenue; Front Street, from Simcoe Street to Frederick Street; Yonge Street from Front Street to Ontario and Quebec Railway track; Frederick and George Streets, from Front to King Street; Sherbourne Street, from King Street to North Drive; Elm Avenue, from Sherbourne Street easterly to Glen Road; Spadina Avenue, from King Street to Bloor Street; Parliament Street, from Queen Street to Carlton Street; Gerrard Street, from Greenwoods Avenue to Parliament Street; Carlton Street, from Parliament Street to Yonge Street; College Street, from Yonge Street to Jameson Avenue, at intersection of Dundas Street; Dundas Street, from Queen Street to the bridge; Bloor Street, from Sherbourne Street to Roncesvalles Avenue; York Street, from Front Street to Queen Street; McCaul Street, from Queen Street to College Street; Bathurst Street, from King Street to the Canadian Pacific Railway tracks; and Broadview Avenue, from Queen Street to Danforth Avenue.

25. Until such changes are carried out in such a manner as will permit its disuse, horse power may be continued on branch and other lines, or parts of same, under written permit from the City Engineer, who shall have the right to order extra horse power to be employed on steep grades.

26. The speed and service necessary on each main line, part of same or branch, is to be determined by the City Engineer and approved by the City Council.

DAY CARS.

27. Day cars are to commence running on all routes not later than 5.30 a. m., and to run until 12 o'clock midnight, at such intervals as the City Engineer with the approval of the City Council, may from time to time determine.

NIGHT CARS.

28. Night cars shall be run on such routes and at such hours and intervals as may be deemed necessary by the City Engineer and approved by the City Council.

TICKETS AND FARES.

29. Single (cash) fares are to be five cents each.

30. Fares on night cars are to be double the ordinary maximum single fare rates.

31. A class of tickets must be sold at the rate of 8 for 25 cents, the same to be used only by passengers entering the cars between the time the day cars commence running and 8 a. m., and between 5 and 6.30 p. m.

A class of tickets must be sold at the rate of 25 for \$1,

Another class at the rate 6 for 25 cents.

32. Children under nine years of age, and not in arms are to be carried at half fare rates, and infants in arms are to be carried free; school children are to have school tickets at the rate of 10 for 25 cents, only to be used between 8 a. m. and 5 p. m., and not on Saturdays.

33. The payment of a fare shall entitle the passenger to a continuous ride from any point on said railway to any other point on a main line or branch of said railway within the City limits; and to enable this service to be carried out, transfer arrangements must be made by the purchaser to meet with the approval of the City Engineer and the endorsement of the Council.

34. Police Constables in uniform, Detective Police Officers in the employ of the City, and (while a fire is in progress) members of the City Fire Department in uniform, shall be carried free.

35. The purchaser shall be liable to and shall indemnify the City against all damages arising out of the construction or operation of the said railway system.

CARS.

36. Cars are to be of the most approved design for service and comfort including heating, lighting, signal appliances, numbers and route boards. They must be kept clean inside and out, and shall not exhibit advertisements outside unless under permit from the City Engineer. The platforms must be provided with gates. Cars are to be used exclusively for the conveyance of passengers, unless otherwise permitted by the City Engineer, and smoking will only be allowed on the front platform of closed cars, and rear seat and platform of open cars.

37. Each car is to be in charge of a uniformed conductor, who shall clearly announce the names of cross streets as the cars reach them. Conductors shall not permit ladies or children to enter or leave the cars while the cars are in motion and shall only receive and discharge passengers on right or curb side of vehicle or double track routes. On branch or light suburban lines, where horse power is permitted, single horse cars may be run in charge of a uniformed driver.

38. Cars are not to be overcrowded (a comfortable number of passengers for each class of cars to be determined by the City Engineer, and approved by the City Council).

STOPPING OF CARS.

39. Cars shall only be stopped clear of cross streets, and midway between streets where distance exceeds, 600 feet. Cars to have right of way and vehicles or persons not to obstruct or delay their operation.

SUNDAY CARS.

40. No cars shall be run on the Lord's Day until a Sunday service has been approved of by the citizens by a vote taken on the question.

WORKMEN.

41. No employee shall be compelled to work in the service of the railway for a longer period than 10 hours per day, or than 60 hours per week, or on more than 6 days per week, and no adult employed in the service of the railway shall be paid less than 15 cents per hour.

42. Nothing herein contained shall be taken as conferring upon the purchaser any right to construct or operate underground, overhead or elevated railways in the City of Toronto, or a surface railway on the Island, and the right to construct or operate, or to authorize the construction or operation of such railways in the said City, or in any part thereof, is hereby expressly reserved.

43. In case of any dispute or difference of opinion arising during the term of this contract between the purchaser and the City as to the meaning or construction of this specification, or of the contract to be prepared as herein provided, the same shall be determined on summary application after two clear days' notice to the other party by the person who, for the time being, fills the office of Judge of the County Court of the County of York, who may, as arbitrator, determine the same with the powers, as to costs and otherwise, of arbitrators under the Municipal Act, with right to appeal to the High Court of Justice for Ontario, whose decision shall be final.

44. The purchaser shall furnish to the City Engineer annually (on the first of January) a statement of tracks, cars, and all plant and appliances on hand on that date, together with the value of the same.

PENALTY.

45. A deposit in cash, marked cheque payable to the order of the City Treasurer, or other security, to the value of thirty thousand dollars (\$30,000), and to the satisfaction of the City Treasurer, is to accompany each tender as a guarantee returnable by City if offer not accepted. In the case of the successful bidder, the amount of the deposit will be retained until a formal contract, with bonds, etc., in the usual form of City contracts, and to be approved by the City Solicitor, has been duly entered into, and will be forfeited to the City if the party fails to completely execute the contract within thirty days after notification to enter into same.

46. In case of neglect or failure on the part of the purchaser to perform any of the conditions of the contract to be entered into in accordance with the above specification, the purchaser shall in each such case of failure forfeit and pay to the City the sum of \$10,000 as liquidated damages and not as a penalty.

47. The purchaser shall provide a waiting room near the corner of Front and York Streets (Union Station), suitable for the convenience of passengers taking the cars at this point.

N.B.—Persons who submit tenders on the foregoing specification may also submit offers or tenders on their own terms, and in such an event one deposit shall suffice. Persons may also submit offers or tenders on their own terms.

CITY ENGINEER'S OFFICE,

Toronto, May 6th, 1891.

AWARD OF THE ARBITRATORS *RE* THE TORONTO STREET RAILWAY

To whom all these presents shall come :

We, Edmund John Senkler, of the City of St. Catharines, in the County of Lincoln, and Province of Ontario, Judge of the County Court of the County of Lincoln, and Charles Henry Ritchie, of the City of Toronto, in the County of York, and Province of Ontario, one of Her Majesty's counsel, learned in the law, send greeting :

Whereas the Corporation of the City of Toronto, by notice in writing bearing date the twenty-third day of November, A.D. 1889, and under the corporate seal of the said the Corporation of the City of Toronto, and the hand of Edward Frederick Clarke, Esquire, M.P.P., Mayor of the said City, and Richard Theodore Coady, Esquire, Treasurer of the said the Corporation of the City of Toronto, and keeper of the City seal, addressed to the Toronto Street Railway Company, and served upon the said the Toronto Street Railway Company upon the said twenty-third, day of November, A.D. 1889, did require the said the Toronto Street Railway Company to take notice that the Corporation of the City of Toronto intended, at the expiration of the term of the franchise granted to Alexander Easton, Esquire, by certain resolutions adopted by the Municipal Council of the said Corporation on the fourteenth day of March, 1861, and by a certain agreement made on the twenty-sixth day of March, 1861, between the Corporation of the City of Toronto and Alexander Easton, and by a certain By-law of the said Corporation passed on the twenty-second day of July, 1861, and numbered 353 (and which franchise the said Company then claimed the right to exercise), and also of certain other franchises subsequently granted by the said Municipal Council at different times for the said term to the Toronto Street Railway Company, to assume the ownership of the railways of the said Company, and of all real and personal property in connection with the working thereof, on payment of their value to be determined by arbitration.

And whereas by an order made in the High Court of Justice, Chancery Division, by the Honorable the Chancellor of Ontario, on Wednesday, the eighteenth day of June, A.D. 1890, in the matter of an arbitration between the Corporation of the City of Toronto and the Toronto Street Railway Company, and in the matter of the Acts of the Legislature of the Province of Ontario, 52 Victoria, Chapter 13, and 53 Victoria, Chapter 105, upon motion that day made unto the said Court by Mr. Robinson, Q.C., of counsel for the Corporation of the City of Toronto, and upon reading the affidavit of C. R. W. Biggar, Q.C., a certain notice served by the said City of Toronto on the said Toronto Street Railway Company on the twenty-third day of November, 1889 (being the notice hereinbefore recited), the affidavit of Patrick Joseph McCormack, being the affidavit of service of such notice, and upon reading the notice of motion therein, and a certain agreement made between one Alexander Easton and the said the Corporation of the City of Toronto, on the twenty-sixth day of March, A.D. 1861, (being the agreement mentioned and referred to in said notice), and upon hearing counsel, the Honorable the Chancellor of Ontario did, pursuant to the statute firstly above named by the said order, appoint Edmund John Senkler, of the City of St. Catharines, Judge of the County Court of the County of Lincoln, Samuel Barker, Esquire, and Charles Henry Ritchie, one of Her Majesty's counsel learned in the law, the arbitrators to ascertain the value to be determined by arbitration under the said agreement.

And whereas the said arbitrators duly took upon themselves the burthen of the said reference and arbitration, and duly weighed and considered the several allegations made by and on behalf of the said the Corporation of the City of Toronto and the said the Toronto Street Railway Company, the parties thereto and also the proofs, vouchers and documents which have been given in evidence before them.

Now, therefore, we the said Edmund John Senkler, and Charles Henry Ritchie, being two of the above-named arbitrators (Samuel Barker, the other of said arbitrators not joining in this award, although present at the making thereof), do hereby make and publish this our award of and concerning the matters so referred to us as aforesaid, in manner following, that is to say :

We find, award, adjudge and determine the value of the railways of the said Toronto Street Railway Company, and of all real and personal property in connection with the working thereof, to be the sum of one million, four hundred and fifty-three thousand, seven hundred and eighty-eight dollars (\$1,453,788).

We further find, award, adjudge and determine that the said railways, and the said real and personal property so valued by us, consist of and include all the railways, and all the real and personal property specified or mentioned in the schedule hereunto annexed, and also all other railways belonged to or worked or constructed by the Toronto Street Railway Company within the City of Toronto aforesaid, and all other real and personal property of the Toronto Street Railway Company used or intended to be used in connection with their said railways or any of them, and that the above-mentioned sum so found by us is the value of all said railways, and of all said real and personal property free and clear and fully and completely exonerated and forever discharged of and from all mortgages, debentures, bonds, debts, liens, encumbrances, claims and demands whatsoever either at law or in equity, and of every nature and kind whatsoever.

We are of opinion that upon the true construction of the agreement of the twenty-sixth March, 1861, between the Corporation of the City of Toronto and Alexander Easton, and the resolutions recited therein, the right and privilege to construct, maintain and operate street railways upon certain streets in the City of Toronto was granted to the said Easton for the period of thirty years from the date therein mentioned only, and not in perpetuity, and that all street railways constructed in the City of Toronto by said Easton, or by the Toronto Street Railway Company, have been constructed and operated under privileges for the same term of thirty years and not in perpetuity, and in valuing said railways we have valued the same as being railways in use, capable of being, and intended to be used and operated as street railways, but have not allowed anything for the value of any privilege or franchise extending beyond said period of thirty years, as we consider no privilege or franchise exists beyond that period.

We are also of opinion that on the true construction of the agreement of the nineteenth January, 1889, between the Toronto Street Railway Company and the Corporation of the City of Toronto, the Company is not entitled to be paid for permanent pavements constructed by the City subsequent to the thirty-first December, 1888, and we also think that such pavements cannot be considered as having been constructed or paid for by the Company as to entitle it to any allowance therefor under the fifth section of chapter fifty-eight, fortieth Victoria (Statutes of Ontario), and we have therefore not allowed anything in respect thereof. In valuing the pavements constructed prior to the first January, 1889, we have not made any deduction in respect of used life of such last mentioned pavements subsequent to that date, as having regard to the terms of the said Agreement of the nineteenth January, 1889, we do not think any such deduction should be made.

It was shown in evidence before us that the property valued by us is (in whole or in part) subject to the following encumbrances, that is to say : Debentures issued by the Toronto Street Railway Company under the authority of the Act (Statutes of Ontario) forty-seventh Victoria, chapter seventy-seven, for the principal sum of six hundred thousand dollars, payable on the first July, 1914, and bearing interest at the rate of six per cent. per annum, payable half-yearly.

Mortgage in favor of one Platt for eight thousand dollars (principal money), payable on the first July, 1892, with interest at the rate of six per cent. per annum.

Mortgage in favor of one Crowther for one thousand seven hundred dollars (principal money), payable on the twenty-eighth of April, 1891, with interest at the rate of six per cent. per annum.

Mortgage in favor of one Gooderham for twenty-six thousand dollars (principal money), payable on the first November, 1891, with interest at the rate of five per cent. per annum.

Mortgage in favor of one Allen for two thousand five hundred dollars (principal money), payable on the twenty-second December, 1891, with interest at the rate of six per cent. per annum.

And mortgage in favor of one Parsons for two thousand dollars (principal money), payable on the first day of November, 1891, with interest at the rate of six per cent. per annum.

By sub-section two of section two of chapter one hundred and five, fifty-three Victoria (Statutes of Ontario), it is provided as follows :

"2. Nothing in this Act contained shall affect the rights of the holders of the debentures hereinbefore issued under the Act of this Legislature, 47 Victoria, chapter 77, but in the event of the Corporation of the City of Toronto taking such possession, such debentures shall be and continue a first charge upon the said railway and property as declared by that Act, whether the same are retained by the Corporation of the City of Toronto or are sold or leased by them to any other persons or company, but this declaration shall not be held or taken to prejudice or affect any claim which, on the part of the City of Toronto, may be contended for before the arbitrator or arbitrators as to the amount at which the liability created by the said debentures shall be estimated or valued in calculating the amount to be paid to the Company, by or under the award."

And counsel for the City contended before us that under the original Agreement, coupled with this section, it was our duty to ascertain and determine what amount should be deducted from the value of the property in respect of the differences between the rates of interest borne by the said debentures and mortgages, and the rate at which the City could borrow money on its own debentures, and adduced evidence to show that the City could, on its own debentures, borrow money at a considerably lower rate than six per cent. per annum.

Although we do not regard the matter as being free from doubt, we are inclined to the opinion that the decision of this question does not come properly within the scope of the reference to us, and therefore we have not taken it into consideration, and our award is made without reference to it.

We have thought it proper, in respect of the main questions of principle involved, to state on the face of the award the basis upon which we have proceeded in arriving at our valuation, so that if the conclusions of law we have drawn and upon what we have acted, are erroneous, either party may be in a position to seek such redress as the law may allow.

In witness thereof we the said Edmund John Senkler and Charles Henry Ritchie (being a majority of the said arbitrators), have hereunto set our hands this fifteenth day of April, A. D. one thousand eight hundred and ninety-one.

(Signed) E. J. SENKLER.

(Signed) C. H. RITCHIE.

Signed and published the fifteenth day of April, A. D. 1891, by the said Edmund John Senkler and Charles Henry Ritchie (the above-mentioned Samuel Barker being present at the time although not joining in the award), in presence of

(Signed) J. F. MIDDLETON.

SCHEDULE.

Referred to in Annexed Award, containing list of the Real and Personal Property included in Valuation made by Arbitrators.

1. All railway tracks of the Toronto Street Railway Company now on the streets of the City of Toronto, including curves, switches, cross-overs and turn-outs, stated to be 68.72 miles measured in single track.

2. The interest of the said Company in all pavements and roadbeds on the streets of said City (basis of valuation of which is shown in award).

3. Lands, including all buildings and erections thereon.

(a) That freehold property of the Toronto Street Railway Company on the south-east corner of Front and Frederick Streets, in the City of Toronto, having a frontage of two hundred feet on the south side of Front Street, a frontage of two hundred feet and five inches on the north side of Esplanade Street, and a frontage of four hundred and fifty-three on the east side of Frederick Street, excepting thereout the lot known as the Currie lot, having a frontage on Frederick Street of eighty feet and two inches by a depth of sixty-six feet.

(b) That freehold property of the said Company on the south-west corner of Front and George Streets, in said City, having a frontage of one hundred and thirty-eight feet and five inches on the south side of Front Street, a frontage of four hundred and forty-three feet and three inches on the west side of George Street, and a frontage of one hundred and thirty-four feet and three inches on the north side of Esplanade Street.

(c) That freehold property of the said company on the north-west corner of Front and Frederick Streets, in said City, having a frontage of one hundred and thirty-six feet on the north side of Front Street, and a depth of one hundred and thirty-six feet and nine inches on the west side of Frederick Street.

(d) That freehold property of the said Company on the south-east corner of King and St. Lawrence Streets, in said City, having a frontage of two hundred feet on the south side of King Street, and a frontage of one hundred and ninety-three feet and nine inches on the east side of St. Lawrence Street.

(e) That leasehold property of the said Company on the north side of St. Lawrence Street, occupied by them in connection with the freehold property lastly above described, and held by the said Company under lease from the trustees of the Toronto General Hospital.

(f) That freehold property of the said Company on the south side of Scollard Street, in said City, commencing on the south side of Scollard Street at a point distant one hundred and seventy feet westerly from the west side of Yonge Street, and running westerly from that point three hundred feet, and having a uniform depth of seventy-five feet and eight inches, together with the leasehold property of the said Company adjoining the same and used in connection therewith.

(g) That freehold property of the said Company on the north side of Yorkville Avenue, in said City, commencing at a point on the north side of Yorkville Avenue three hundred and seventy feet westerly from the west side of Yonge Street and running from that point westerly one hundred feet, and having a uniform depth of one hundred and sixty-five feet and eleven inches.

(h) That freehold property of the said Company on the west side of Yonge Street, in the block between Davenport Road and Belmont Street, in said City, known as lot number four, registered plan 270, having a frontage of ninety-seven feet six inches, on Yonge Street, and running back to a lane.

4. Rolling stock :

(a) Cars—90 two-horse cars (closed), including the twelve original cars purchased by the company ; 56 open cars ; 116 one-horse cars.

(b) Busses—56 busses (Stephenson, N.Y., make) ; 43 other busses.

(c) Sleighs—40 car sleighs (Speight & Son, makers) ; 60 car sleighs (T. S. R. Co. make).

5. Horses—The 1,372 horses belonging to the Company and referred to in Schedules filed before arbitrators.

6. Harness, machinery in mill and miscellaneous chattels appearing in Schedules filed before arbitrators, the value of which has been fixed by the parties of the reference at fifty-one thousand dollars, pursuant and subject to agreement between them appearing at page 68 of volume 7 of the shorthand reporter's notes of evidence taken before arbitrators, which value the arbitrators have adopted.

7. Tracks in Company's buildings, the value of which has been agreed upon by the parties, and adopted by the arbitrators.

8. Horse feed on hand, valued at ten thousand dollars.

9. Chattels enumerated in Exhibit 188 filed before us, the value of which has been agreed upon by the parties and adopted by the arbitrators.

(Signed) E. J. SENKLER.

(Signed) C. H. RITCHIE.

Witness :

J. F. MIDDLETON.

SCHEDULE A.
TORONTO STREET RAILWAY.
*Length of Tracks in Operation. Length of Tracks Constructed but not in Operation.
Length of Tracks to be Constructed.*

| Street. | From | To | In Operation. | | Con- structed, not Operat'd Double. | To be Con- structed. | |
|---------------|---------------|----------------|---------------|---------|---|-------------------------|--------|
| | | | Single. | Double. | | Single. | D'ble. |
| | | | feet. | feet. | | feet. | feet. |
| Front | Frederick .. | Simcoe | 370 | 4,632 | | | |
| King | Don | Roncesvalles. | | 16,335 | 4,243 | | 4,300 |
| Queen | Lee Av | High Park .. | 2,202 | 33,747 | | | 2,230 |
| College | Yonge | Jameson..... | | 13,479 | | | 2,386 |
| Carlton | " | Parliament .. | | 4,036 | | | |
| Gerrard | Greenwood .. | " | 650 | 1,450 | | 650 | 8,686 |
| Winchester.. | Sumach | " | 1,454 | | | | |
| Bloor | Sherbourne.. | Roncesvalles. | | | 15,932 | | 4,700 |
| Broadview .. | Queen | Danforth | | 6,826 | | | |
| Parliament.. | " | Winchester .. | 301 | 3,504 | | | |
| Elm Av. | Sherbourne.. | Glen Road .. | | | | 2,900 | |
| Sherbourne.. | King | North Drive.. | | 8,095 | | | 2,950 |
| Frederick ... | " | Front | 103 | 146 | | | |
| George | " | " | | 252 | | | |
| Church | Front | Bloor | | 8,532 | | | |
| Yonge | " | C. P. Railway | 148 | 12,764 | | | |
| York | " | Queen | | 2,144 | | | |
| McCaul | College | " | | 3,338 | | | |
| Spadina..... | King | Bloor | 113 | 7,930 | | | |
| Bathurst.... | " | C. P. Railway | | 11,302 | | | |
| Strachan.... | " | Wellington .. | | 394 | | | |
| Dundas | Queen | Jameson | 1,029 | 5,843 | | | |
| Dovercourt.. | College | C. P. Railway | | 2,846 | | 3,300 | |
| Dufferin and | Union | Bloor | | | | 4,980 | |
| | | Feet | 6,370 | 152,595 | 20,175 | 11,750 | 25,752 |
| | | Miles | 1.20 | 28.90 | 3.82 | 2.22 | 4.88 |

| SUMMARY. | |
|--|--------------|
| Single tracks in operation | 1.20 miles |
| Double tracks reduced to single in operation. | 57.80 " |
| Curves reduced to single in operation | 1.36 " |
| Cross-overs in operation | 0.71 " |
| | 61.07 miles. |
| Double tracks reduced to single, constructed but not operated | 7.64 " |
| Double tracks to be constructed (reduced to single) | 9.76 " |
| Single tracks to be constructed | 2.22 " |
| Grand total... | 80 69 miles. |

DESCRIPTION OF TRACK.

Showing Different Kinds of Construction Laid on Streets.

| Street. | 30-lb. rail. 5"x6" stringer 4"x6" tie. | 30-lb. rail. 5"x8" stringer 4"x6" tie. | 25-lb. rail. 5"x6" stringer 4"x6" tie. | 25-lb. rail. 5"x8" stringer 4"x6" tie. | 22-lb. rail. 5"x6" stringer 4"x6" tie. |
|--------------------|---|---|---|---|---|
| | feet. | feet. | feet. | feet. | feet. |
| Front | | 8,111 | 1,311 | | 212 |
| King | 14,513 | | 5,199 | | 21,521 |
| Queen | 47,354 | | 32,343 | | |
| College | 8,933 | 13,472 | 4,555 | | |
| Carlton | | 8,072 | | | |
| Gerrard | 1,393 | | 2,157 | | |
| Winchester | 704 | | 750 | | |
| Bloor | | 31,864 | | | |
| Broadview Av. | | 13,652 | | | |
| Parliament | 4,658 | | 2,652 | | |
| Sherbourne | | 16,190 | | | |
| Frederick | | | 396 | | |
| George | 504 | | | | |
| Church | | 7,351 | | 9,713½ | |
| Yonge | | 7,321 | 9,325 | 9,030 | |
| York | | 4,288 | | | |
| McCaul | | 6,677 | | | |
| Spadina Av. | | 3,091 | | 12,883 | |
| Bathurst | | 22,605 | | | |
| Strachan Av. | 161 | | 628 | | |
| Dundas | 526 | 7,305 | 2,228 | 2,648 | |
| Dovercourt | | 5,692 | | | |
| Single track { | Feet | 70,260 | 134,477 | 61,554 | 34,274 |
| | Miles | 13.11 | 31.28 | 11.65 | 6.49 |
| | | | | | 4.11 |

NOTE.—Gauge of tracks, 4 ft. 11 in. ; devil's strip, 3 ft. Ties and stringers are of pine. The ties are spaced 5 ft. between centres, and are 4 in. x 6 in. x 7 ft. long. Stringers are spiked to ties with 9 in. x ½ in. spikes, one through each tie, and placed on the outside of stringers only.

Joint knees weigh 5 lbs. each, and intermediate 2 lbs. 1 oz. each. There are 9½ miles of iron rails, the balance are of steel. All curves, switches and diamond crossings are of cast iron.

ROAD BEDS OF THE TORONTO STREET RAILWAY.

Showing the Number of Miles of each kind of Pavement for Single and Double Tracks laid on Streets.

NOTE.—The width for single tracks is 8 ft. 4 in., and for double 16 ft. 8 in. Length of pavements on streets are in lineal feet.

| Street. | Cedar and Cobble. | Cedar Block. | Asphalt and Scoria Blocks. | Sandstone Setts on Sand. | Scoria Blocks on Concrete. | Granite Setts on Concrete. | Cobble with Stone Kerbs. | Cobble. | Granite Setts on Sand. | M'cad'm and Gravel (G). |
|----------------------|-------------------|--------------|----------------------------|--------------------------|----------------------------|----------------------------|--------------------------|--------------------------|------------------------|-------------------------|
| | feet. | feet. | feet. | feet. | feet. | feet. | feet. | feet. | feet. | feet. |
| Front | | | | | | | | (s) 370 } (d) 2,115 } | (d) 2,319 | |
| King | (d) 808 | (d) 12,619 | | | | | | (d) 52 | (d) 4,737 | |
| Queen | (d) 8,010 { | (s) 2,000 { | | | (d) 1,845 | | | (d) 3,850 | | (d) 4,019 G |
| College | | (d) 22,910 } | | | | | | (d) 6,735 | | |
| Carlton | | (d) 6,755 | | | | | | | | |
| Gerrard | | (d) 4,054 | | | | | | | | |
| Winchester | | | | | | | | | | |
| Bloor | | | (d) 2,642 | | | | | | | (d) 1,5 8 M |
| Broadview Ave. | | (d) 6,888 | | | | | | | | (s) 650 M |
| Parliament | | (d) 2,499 | | | | (d) 8,107 | | (d) 879 | (d) 11,615 | (s) 1,466 M |
| Sherbourne | | | | | | | | | | |
| Frederick | | | | | | | | (s) 115 } | | |
| George | | | | | | | | (d) 158 } | | |
| Church | | | | (d) 8,544 | | | | (d) 284 | | |
| Yonge | | (s) 148 } | | | | | | (d) 800 | | |
| York | | (d) 11,964 } | | | | | | | | |
| McCauley | | (d) 2,168 | | | | | | | | |
| Spadina Av. | | (d) 3,362 | | | | | (s) 113 } | | | |
| Bathurst | | 3,589 | | | | | (d) 3,311 } | | (d) 1,139 | |
| Strachan Av. | | 3,265 | | | | | (d) 3,132 | (d) 1,175 | (d) 3,291 | |
| Dundas | | (s) 870 } | | | | | (d) 5,057 | | | (d) 406 |
| Dovercourt Rd. | | (d) 1,633 } | | | | | (d) 2,798 | (s) 3,300 | | |
| Total double track.. | 8,818 | 81,006 | 2,642 | 8,544 | 1,845 | 8,107 | 14,298 | 15,248 | 23,901 | (d) 1,934 M |
| Road bed, miles | 1.67 | 15.39 | 0.50 | 1.61 | 0.35 | 1.53 | 2.71 | 2.89 | 4.53 | 0.36 |
| Total single track.. | | 3,008 | | | | | 113 | 3,785 | | (s) 2,522 M |
| Road bed, miles | | 0.59 | | | | | 0.02 | 0.72 | | 0.48 |
| | | | | | | | | | | (d) 4,049 G |
| | | | | | | | | | | 0.77 |

(d) Double track.

(s) Single track.

TENDERS OF KIELY, EVERETT AND McKENZIE.

No. 1.

Annual Percentages of Gross Receipts.

1. Up to \$1,000,000, 7 1-10 per cent.
2. From \$1,000,000 to \$1,500,000, 8 1-10 per cent.
3. From \$1,500,000 to \$2,000,000, 9 1-10 per cent.
4. From \$2,000,000 to \$2,500,000, 10 1-10 per cent., and advancing 1 per cent. on each additional \$500,000.
5. If the City guarantee bonds at 4 per cent., 1 per cent. a year on the amount to be paid to the City for the guarantee.

No. 2.

6. If class of tickets 8 for 25 cents struck out, an additional 2 per cent. per annum on gross receipts to be added to each of said annual percentages.

No. 3.

7. If paragraph 9 struck out, an annual payment of \$136,000 ; if paragraph 9 and tickets 8 for 25 cents both struck out, an annual payment of \$151,000.

(Signed) G. W. KIELY.

(Signed) WM. McKENZIE.

(Signed) HENRY A. EVERETT.

TENDER NO. 1

Of George W. Kiely, of Toronto, 580 Jarvis Street ; William McKenzie, of Toronto, 623 Sherbourne Street ; and Henry A. Everett, of Cleveland, Ohio, Secretary of East Cleveland Railway Company (electric), for the privileges to be disposed of by the Corporation of the City of Toronto under the amended conditions for the privilege of operating surface street railways within the limits of the City of Toronto, as adopted by the City Council May 5th, 1891.

We, the said George W. Kiely, William McKenzie and Henry A. Everett, called Purchasers under the said conditions, respectfully submit to the Corporation of the City of Toronto the following Tender, based upon the said conditions (a copy of which is hereto annexed).

1. We offer to pay to the Corporation of the City of Toronto under Section 9, 7 1-10 per cent. per annum of the gross receipts in addition to the other money provided for in said section.

2. And we, the said Purchasers, further offer that should the said gross receipts described as aforesaid be in excess of \$1,000,000, and not greater than \$1,500,000 then the Purchasers will pay on any excess over \$1,000,000, 8 1-10 per cent. per annum on said gross earnings to the said City of Toronto.

3. And we, the said Purchasers, further offer that should the said gross receipts be in excess of \$1,500,000 and not greater than \$2,000,000, then the Purchasers will pay on any excess over \$1,500,000, 9 1-10 per cent per annum of said gross earnings to the said City of Toronto, and the further sum of one per cent. per annum upon each additional \$500,000.

4. And we, the said Purchasers, further offer that if the City of Toronto shall procure the necessary legislation to guarantee debentures bearing four per cent. interest proposed to be issued by said Purchasers to an amount not to exceed in the aggregate the sum of \$2,000,000, the said sum or any part thereof to be used solely for the purpose of equipping the street railroad with the improvements contemplated by the said specifications, we, the said Purchasers, will pay to the City of Toronto, in addition to the sums hereinbefore enumerated, an additional

sum of money equal in amount to one per cent per annum on the amount of debentures issued by said Purchasers and guaranteed in the manner hereinbefore provided.

This Tender is made upon the faith that an electric railway system will be approved and confirmed under Section 24 of the specifications, unless some new system shall in the meantime be devised for the operation of street railways which is not more expensive and is equally commercially successful with known electric system.

This Tender is to apply to the Purchasers or to any company incorporated by them for the purpose of carrying out this Tender.

Respectfully submitted.

(Signed) G. W. KIELY.

(Signed) WM. MCKENZIE.

(Signed) HENRY A. EVERETT.

Dated at Toronto this 26th day of May, A. D. 1891.

TENDER No. 2.

Of George W. Kiely, of Toronto, 580 Jarvis Street; Wm. McKenzie, of Toronto, 623 Sherbourne Street; and Henry A. Everett, of Cleveland, Ohio, Secretary of East Cleveland Railway Company (electric), for the privileges to be disposed of by the Corporation of the City of Toronto under the amended conditions for the privilege of operating surface street railways within the limits of the City of Toronto, as adopted by the City Council, May 5th 1891.

We the said George W. Kiely, William McKenzie and Henry A. Everett (called Purchasers under the said conditions), respectfully submit to the Corporation of the City of Toronto the following alternative tender based upon the afore-said specifications:

They repeat all the allegations of their Tender No. 1 and make them a part hereof as fully as though they were herein written, but modified as follows, to wit:

That if the City of Toronto will eliminate from Clause 31 of the specifications the words, "A class of tickets must be sold at the rate of eight for twenty-five cents, the same to be used only by passengers entering the cars between the time the day cars commence running and 8 a. m., and between 5 and 6.30 p. m.," the said Purchasers offer to pay to the City of Toronto two per cent. of the gross receipts in addition to the percentages that they have offered to pay under their Tender No. 1.

Respectfully submitted.

(Signed) G. W. KIELY.

(Signed) WM. MCKENZIE.

(Signed) HENRY A. EVERETT.

Dated at Toronto this 26th day of May, A. D. 1891.

TENDER No. 3.

Of George W. Kiely, of Toronto, 580 Jarvis Street; William McKenzie, of Toronto, 623 Sherbourne Street; and Henry A. Everett, of Cleveland, Ohio, Secretary of the East Cleveland Railway Company (electric), for the privileges to be disposed of by the Corporation of the City of Toronto under the amended conditions for the privilege of operating surface street railways within the limits of the City of Toronto, as adopted by the City Council, May 5th, 1891.

We, the said George W. Kiely, William McKenzie and Henry A. Everett (called Purchasers under the said conditions), respectively submit the following alternative tender to the Corporation of the City of Toronto, based upon the said conditions (a copy of which is hereto annexed), subject to the following qualifications:

We hereby make our Tender No. 1 a part hereof as fully as though herein written, except as to Section No. 9 of the specifications, and that portion of Section No. 31 providing for eight tickets for twenty-five cents.

We offer, in lieu of Section No. 9 of the qualifications, to pay to the City of Toronto during the period covered by the purchase, the sum of \$136,000 per annum, payable in four equal quarterly payments.

And we further offer that if the said portion of Section 31 providing for eight tickets for twenty-five cents shall also be eliminated, we will pay to the City of Toronto during the period covered by the purchase, the sum of \$161,000 per annum, payable in four equal quarterly payments, the said sum of \$151,000 to be in lieu of Section No. 9 and that portion of Section No. 31 providing for eight tickets for twenty-five cents.

Respectfully submitted.

(Signed) G. W. KIELY.
(Signed) WM. MCKENZIE.
(Signed) HENRY A. EVERETT.

Dated at Toronto this 26th day of May, 1891.

AMENDED TENDER OF KIELY, EVERETT & MCKENZIE FOR THE TORONTO STREET RAILWAY.

TORONTO, June 26th, 1891.

Alfred McDougall, Esq., Chairman of the Street Railway Committee, City :

DEAR SIR,—At the meeting of the Street Railway Committee on the evening of the 25th inst. our clients decided to withdraw all their tenders and to consider whether they would substitute a fresh tender in the direction of the claims made by the Mayor and some of the Aldermen that the percentages should increase at a higher progressional ratio.

Our clients expected to have received their tenders and deposits this a.m., but we are informed by the Clerk and Treasurer that a formal resolution of the Council is necessary.

We enclose an amended tender which our clients have, after consideration, decided to make, and we confirm the former tenders, amended by the enclosed tender, in the rate of gross percentage, and we confirm the deposit of \$30,000 as the deposit for security.

Yours respectfully,

(Signed) KINGSMILL, SYMONDS, SAUNDERS & TORRANCE.
BAIN, LAIDLAW & CO.

TORONTO, 25th June, 1891.

To the Corporation of the City of Toronto and to Alfred McDougall, Esq., Chairman of the Street Railway Committee :

We, George W. Kiely, William McKenzie and Henry A. Everett, offer to buy the privilege of operating surface street railways in the City of Toronto on the basis of the amended conditions and to pay the following rates of percentages of annual gross receipts, namely :

| | |
|---|-------------|
| (1) Up to \$1,000,000 | 8 per cent. |
| (2) From 1,000,000 to \$1,500,000 | 10 " |
| (3) " 1,500,000 to 2,000,000 | 12 " |
| (4) " 2,000,000 to 3,000,000 | 15 " |
| All over \$3,000,000 | 20 " |

And we make this offer on condition that it shall be disposed of without any unnecessary delay.

Yours respectfully,
(Signed) G. W. KIELEY,
WM. MCKENZIE,
H. A. EVERETT.

BY-LAW AUTHORIZING EXECUTION OF AGREEMENT.

No. 2920. A BY-LAW.

To authorize a certain Agreement between Messrs. Kiely, Everett and McKenzie and the City of Toronto for the lease of the Toronto Street Railway.

[Passed July 27th, 1891.]

Whereas the Corporation of the City of Toronto has acquired the ownership of the railways of the Toronto Street Railway Co., and all the real and personal property in connection with the working thereof, and has asked, by public advertisement, for tenders from persons willing to acquire the said railways and the privilege of operating surface street railways in the City of Toronto.

And whereas George W. Kiely, Wm. McKenzie and Henry A. Everett have tendered for the acquisition of such railways, and the privilege of operating surface street railways, as shown by Report No. 12 of the Street Railway Committee and appendices thereto, which report was adopted by Council on the 21st day of July, 1891, and it is advisable that the tender of the said Messrs. Kiely, McKenzie and Everett, be accepted by the said Corporation.

Therefore the Municipal Council of the Corporation of the City of Toronto enacts as follows :

I.

That the Mayor and City Treasurer be authorized and empowered to execute and affix the City seal on behalf of the City to an agreement between the Corporation of the City of Toronto and the said Messrs. Kiely, McKenzie and Everett, based on the specifications and conditions for the privilege of operating surface street railways within the City of Toronto, as adopted by the City Council May 5th, 1891, and the said tender of the said Messrs. Kiely, McKenzie and Everett as contained in the appendix to said Report No. 12 of the said Street Railway Committee, provided that such agreement be drawn, settled and approved of by the City Solicitor and counsel learned in the law ; and provided further that the date of execution of the contract shall be taken to be the date of acceptance of the tender for the purpose of the second paragraph of the said conditions ; and provided further that no claims shall be made by Messrs. Kiely, Everett and McKenzie, or be allowed by this Council, for any depreciation of property during the time the City has charge of the said street railway.

I certify that I have examined this Bill and that it is correct.

JOHN BLEVINS,
City Clerk.

COUNCIL CHAMBER,
Toronto, July 27th, 1891.

[L. S.] E. F. CLARKE,
Mayor.

Witnesses :

THOMAS CASWELL,
GEO. KAPPELE.

(Signed)

G. W. KIELY
WM. MCKENZIE, by his
Attorney, Nicol Kingsmill.
H. A. EVERETT.
C. C. WOODWORTH.

AFFIDAVIT OF EXECUTION.

PROVINCE OF ONTARIO, }
 County of York, } I, George Kappelé, of the City of Toronto, in the
 To Wit : } County of York, Esquire, make oath and say :

1. That I was personally present and did see the foregoing Agreement and Award, Conditions, Tender and By-Law attached thereto, duly signed, sealed and executed in triplicate by the within named George Washington Kiely ; William McKenzie, by his attorney, Nicol Kingsmill ; Henry Azariah Everett, and Chauncey Clark Woodworth, four of the parties thereto.

2. That the said Agreement and Award, Conditions, Tender and By-Law attached thereto in triplicate were executed at the City of Toronto aforesaid.

3. That I know the said parties.

4. That I am a subscribing witness to the said Agreement and Award, Conditions Tender and By-Laws attached thereto in triplicate, and that the name "Geo. Kappelé," subscribed to the said Agreement and Award, Conditions, Tender and By-Law attached thereto in triplicate, is in the proper handwriting of me this deponent.

Sworn before me at the City of Toronto,
 in the County of York, this first day
 of September, A.D. 1891.

GEO. KAPPELE.

C. R. W. BIGGAR,
A Commissioner for taking affidavits, etc.



TA Toronto. Dept. of Public
27 Works
T7A2 Report of the city
1899 engineer

Physicals

Applied Sci

Serials

Engineering

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